TAPR Mic-E Special Interest Group Archive, March 1997 through May 2003

March 1997 through May 2003

TAPR's forum for Mic-E APRS hardware and protocol development, including message formats, position encoding, GPS receivers, radio interfaces, serial communications, construction, troubleshooting, and integration with compatible radios and APRS software.

This volume contains 62 original monthly files and 930 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

Month	Messages	Original source file
1997-03	27	mic-e.9703
1997-06	49	mic-e.9706
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1999-05	28	mic-e.9905
1999-06	19	mic-e.9906
1999-07	15	mic-e.9907
1999-08	8	mic-e.9908
1999-09	15	mic-e.9909

Month	Messages	Original source file
1999-10	3	mic-e.9910
1999-11	6	mic-e.9911
1999-12	9	mic-e.9912
2000-01	3	mic-e.0001
2000-02	4	mic-e.0002
2000-03	6	mic-e.0003
2000-04	5	mic-e.0004
2000-05	13	mic-e.0005
2000-06	9	mic-e.0006
2000-07	3	mic-e.0007
2000-08	3	mic-e.0008
2000-09	3	mic-e.0009
2000-10	11	mic-e.0010
2000-11	3	mic-e.0011
2001-01	9	mic-e.0101
2001-02	11	mic-e.0102
2001-03	7	mic-e.0103
2001-04	8	mic-e.0104
2001-07	1	mic-e.0107
2001-10	1	mic-e.0110
2001-11	1	mic-e.0111
2001-12	12	mic-e.0112
2002-01	6	mic-e.0201
2002-02	1	mic-e.0202
2002-03	3	mic-e.0203
2002-04	6	mic-e.0204
2002-08	1	mic-e.0208
2002-09	2	mic-e.0209
2002-10	3	mic-e.0210
2003-01	3	mic-e.0301
2003-03	1	mic-e.0303
2003-04	2	mic-e.0304
2003-05	3	mic-e.0305

March 1997

Original source file: mic-e.9703
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9703

1. [MIC-E:1176] Ground loop?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 21 May 1997 20:09:54 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970521210607.13452O-100000@arctic>
Rendered body type: text/plain

For clarity I will refer to the PRODUCTION version of the Mic-E as the
Mic-E PRO...

During bench testing of mine, I hooked up a GPS unit running on the roof
from industrial AC power and running through 150 feet of cable via a
miriad of connections to the Mic-E and it worked perfectly and with no
audio problems. (amazing...)

While driving back from Dayton, I was surprised when I plugged in my
handheld Garimn-45 wiht internal antenna and internal batteries and got
Significant GPS data whine on the Mic-E audio... Makes no sense since
there are no ground loops possible. Only GND and data connect to he Mic-E
from the GPS. I havent been able to troubleshoot further yet, but am
curious if anyone else has heard this?

 APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

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2. [MIC-E:1177] 8 Pin Panel Mount Microphone Connector

From: "Jim Temple" <templej@iglou.com>
Date: Thu, 22 May 1997 11:25:49 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wUabn-0000mw-00@iglou1>
Rendered body type: text/plain

Hello All,

This is my first ever post. I am new to APRS as well as MIC-E.

I have one question about the wiring of this plug....

On page 5 of the assembly manual, the pins are said to be viewed from the
rear, and are in a counter clockwise orientation. The actual part that was
enclosed in the kit, when viewed from the rear (the soldering side), shows
the pins numbered in a clockwise orientation.

Should I simply connect pin one through eight, as molded into the part, to
hole 1 through 8 on the pc board? Or should I ignore the molded pin
assignments on the plug and follow the instruction manual?

Thank you in advance for any suggestions from the group.

Sincerely, Jim Temple, 73,KF4ICZ

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3. [MIC-E:1178] Re: 8 Pin Panel Mount Microphone Connector

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 22 May 1997 14:12:15 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020915afaa496b53f5@[192.168.1.2]>
Rendered body type: text/plain

>Hello All,
>
>This is my first ever post. I am new to APRS as well as MIC-E.
>
>I have one question about the wiring of this plug....
>
>On page 5 of the assembly manual, the pins are said to be viewed from the
>rear, and are in a counter clockwise orientation. The actual part that was

>enclosed in the kit, when viewed from the rear (the soldering side), shows
>the pins numbered in a clockwise orientation.

I might have it wrong in the manual. Maybe some others can check.

Greg

>Should I simply connect pin one through eight, as molded into the part, to
>hole 1 through 8 on the pc board? Or should I ignore the molded pin
>assignments on the plug and follow the instruction manual?
>
>Thank you in advance for any suggestions from the group.
>
>
>Sincerely, Jim Temple, 73,KF4ICZ

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

4. [MIC-E:1179] Re: 8 Pin Panel Mount Microphone Connector

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 22 May 1997 16:05:25 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3384B473.1E93@amsat.org>
Rendered body type: text/plain

I checked some Icom, Kenwood and Yaesu manuals and all showed the pinout
Counter-clockwise from the front (clockwise from the rear).

Ignore the manual -- go with the connector labeling.

Ron

Greg Jones, WD5IVD wrote:
>
> >Hello All,
> >
> >This is my first ever post. I am new to APRS as well as MIC-E.
> >
> >I have one question about the wiring of this plug....
> >
> >On page 5 of the assembly manual, the pins are said to be viewed from the
> >rear, and are in a counter clockwise orientation. The actual part that was
> >enclosed in the kit, when viewed from the rear (the soldering side), shows
> >the pins numbered in a clockwise orientation.
>
> I might have it wrong in the manual. Maybe some others can check.
>
> Greg
>
> >Should I simply connect pin one through eight, as molded into the part, to
> >hole 1 through 8 on the pc board? Or should I ignore the molded pin
> >assignments on the plug and follow the instruction manual?
> >
> >Thank you in advance for any suggestions from the group.
> >
> >
> >Sincerely, Jim Temple, 73,KF4ICZ
>
> -----
> Greg Jones, WD5IVD
> Austin, Texas
> wd5ivd@tapr.org
> http://www.tapr.org/~wd5ivd
> -----

--
Ron W5RKN

also:
rparsons@bga.com

5. [MIC-E:1180] RE: [APRSSIG:12705] Mic-E GPS Output

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 23 May 1997 05:58:40 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <01BC6746.52F6AA00@gwyn>
Rendered body type: text/plain

You are correct about the purpose and wiring of the stereo jack.

The output data from the GPS receiver are available at pin 3 of J2 if no plug is inserted in J2. You would need to
run a wire from that point to the appropriate point in the cable to your PC.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

From: Donald R Froula[SMTP:dfroula@interaccess.com]
Sent: Monday, May 19, 1997 7:14 AM
To: aprssig@tapr.org
Subject: [APRSSIG:12705] Mic-E GPS Output

After examining the Mic-E documentation, I'm unclear on one point. Perhaps
someone on the list can supply the information.

If an internal GPS is installed, is the data output from the GPS available
at the transmit data line of the DB-9 and/or stereo 1/8" jack? The docs
seem to indicate that the transmit data line is only used for programming in
personality data to the PIC chip.

Availability of the GPS data would be useful for connecting a PC running
APRS in the car, while still allowing locations to be transmitted to others.

Regards,

Don Froula
WD9DMP

6. [MIC-E:1181] Why I'm upgrading my dosAPRS...

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Tue, 27 May 1997 12:08:11 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.32.19970527130109.00a28a00@pop.mass-usr.com>
Rendered body type: text/plain

Recently, I've decided to upgrade my dosAPRS from 784 to something more
recent like 782 because of the following:

1) Eric, WB1HBU-9 with his new (production) MIC-E was seen by my station
over the weekend, but not being plotted. However my MIC-E that I have as a
member of the beta test group (N1CPE-9) is received and plotted. I know
there were some tweeks to the compressed MIC-E strings near the end of the
beta cycle, but I thought they were only supposed to support the telemetry.
It looks like dosAPRS is confused about the header. Is anybody else seeing
this?

2) My dosAPRS 784 is now seeing stations running winAPRS2.00 on the air,
and in each case, these stations send an = as the first character of the
posit string. I think I remember some discussion of this new format, but
don't remember it's significance. In either case, my current version of
dosAPRS doesn't accept these posit strings and doesn't plot them.

Does anybody else run this version of dosAPRS anymore and/or see these
results with production MIC-E's and winAPRS 2.00 + stations?

A question for the fathers of APRS, will simply upgrading help me see
Eric's new production MIC-E and the winAPRS 2.0+ stations?

Thanks!

- Tom Kinahan N1CPE

Tom Kinahan Phone: 508-871-0305

```
US Robotics                     Fax:            508-870-1689
Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
4 Technology Drive              Amateur Radio:  N1CPE
Westboro, Ma. 01581
Homepage: http://homepage.usr.com/t/tomkn1cpe
```

7. [MIC-E:1182] Re: Why I'm upgrading my dosAPRS...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 27 May 1997 15:58:39 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970527165632.7401G-100000@arctic>
Rendered body type: text/plain

Yes, you need later versions of APRSdos to see the new Mmic-E and to see
the new WinAPRS formats.

On Tue, 27 May 1997, Tom Kinahan wrote:

```
>
>  Recently, I've decided to upgrade my dosAPRS from 784 to something more
> recent like 782 because of the following:
>
>  1) Eric, WB1HBU-9 with his new (production) MIC-E was seen by my station
> over the weekend, but not being plotted. However my MIC-E that I have as a
> member of the beta test group (N1CPE-9) is received and plotted. I know
> there were some tweeks to the compressed MIC-E strings near the end of the
> beta cycle, but I thought they were only supposed to support the telemetry.
> It looks like dosAPRS is confused about the header. Is anybody else seeing
> this?
>
>  2) My dosAPRS 784 is now seeing stations running winAPRS2.00 on the air,
> and in each case, these stations send an = as the first character of the
> posit string. I think I remember some discussion of this new format, but
> don't remember it's significance. In either case, my current version of
> dosAPRS doesn't accept these posit strings and doesn't plot them.
>
>  Does anybody else run this version of dosAPRS anymore and/or see these
> results with production MIC-E's and winAPRS 2.00 + stations?
>
>  A question for the fathers of APRS, will simply upgrading help me see
> Eric's new production MIC-E and the winAPRS 2.0+ stations?
>
>  Thanks!
>
> - Tom Kinahan N1CPE
>
>
> ----------------------------------------------------------------------
> Tom Kinahan                     Phone:          508-871-0305
> US Robotics                     Fax:            508-870-1689
> Massachusetts R&D Lab           Email:          kinahan@mass-usr.com
> 4 Technology Drive              Amateur Radio:  N1CPE
> Westboro, Ma. 01581
> Homepage: http://homepage.usr.com/t/tomkn1cpe
>
>
```

APRSdos REPLY/COMMENT:

```
Reply mail addr:   wb4apr@amsat.org
US mail address:   115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY:    http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio:    http://www.tapr.org/tapr/html/mic-e.html
```

8. [MIC-E:1183] Re: Why I'm upgrading my dosAPRS...

From: "Eric A. Cottrell" <eac@shore.net>
Date: Tue, 27 May 1997 20:11:23 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <338B6F6C.6BC1@shore.net>
Rendered body type: text/plain

Tom Kinahan wrote:

```
>
>  Recently, I've decided to upgrade my dosAPRS from 784 to something more
> recent like 782 because of the following:
>
>  1) Eric, WB1HBU-9 with his new (production) MIC-E was seen by my station
> over the weekend, but not being plotted. However my MIC-E that I have as a
```

> member of the beta test group (N1CPE-9) is received and plotted. I know
> there were some tweeks to the compressed MIC-E strings near the end of the
> beta cycle, but I thought they were only supposed to support the telemetry.
> It looks like dosAPRS is confused about the header. Is anybody else seeing
> this?

I am running WinAPRS 2.0.0. The first time I went to work I was able to
do
replay track and see my track. Since then I cannot replay my track.
I can replay other gps stations track and it seems that it is decoding
properly. I will test by setting the GPS to simulator mode.

I am getting the two color blinking of the power light that is suppose
to
indicate the box is getting a fix.

73 Eric eac@shore.net WB1HBU

9. [MIC-E:1184] Mic-E TIPS

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 May 1997 09:13:59 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970528100423.7290D-100000@arctic>
Rendered body type: text/plain

ANOMOLY #1: Depending on your PTT impedance, you may find that the Mic-E
will cause a constant key on your radio when you turn the Mic-E off.

DISCUSSION: The production version of the Mic-E replaced the conventional
PTT LED with a multicolor LED and LED driver. To make up for the missing
pull up function, R26 was added to pull up to +5. Problem is, when the
Mic-E is turned off, this becomes a 10k PTT load to ground.

SOLUTIONS: Suggested fixes.
1) move the high side of R26 to MicPower so that it is always pulled up...
   This is the preferred solution...
2) Include an isolating diode in series with the R26 so that it cant pull
   down when the Mic-E is off....

ANOMOLY #2: Heard second hand that a Mic-E owner was having problems
until he discovered a diode was installed backwards. Im trying to get
back to him to find out which diode....

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

10. [MIC-E:1185] Re: Why I'm upgrading my dosAPRS...

From: Mark Sproul <sproul@ap.org>
Date: Wed, 28 May 1997 09:14:06 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03010d05afb1ed7ffdfb@[165.1.27.20]>
Rendered body type: text/plain

>
>I am running WinAPRS 2.0.0. The first time I went to work I was able to
>do
>replay track and see my track. Since then I cannot replay my track.
>I can replay other gps stations track and it seems that it is decoding
>properly. I will test by setting the GPS to simulator mode.
>
>I am getting the two color blinking of the power light that is suppose
>to
>indicate the box is getting a fix.
>

Version 2.0.0 the REPLAY track from the MENU does not work, however, if you
click on the station and hit "R", it works fine

2.0.1 has this fixed

Mark

```
_____________________________________________________________________________
Mark Sproul                      |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press  |
sproul@ap.org                    |Work: 609-860-7120
North Brunswick, NJ              |Fax:  609-860-7129
http://msproul.rutgers.edu/
_____________________________________________________________________________
```

11. [MIC-E:1186] REPLAY tracks

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 28 May 1997 14:28:41 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102800afb22e14c0e9@[206.50.200.1]>
Rendered body type: text/plain

```
>
>Version 2.0.0 the REPLAY track from the MENU does not work, however, if you
>click on the station and hit "R", it works fine
>
>2.0.1 has this fixed
>



Mac/Aprs Mic-e tracking:

The TAB key in old versions allowed stepping through the stations list
now the TAB key steps through the different open windows and make one
window the active foreground window.

>click on the station and hit "R", it works fine

ONLY if you can see the station !!

How does one replay a track when we are zoomed in on a map
or we are using a detail map that doesn't have the last posit of
the tracked station displayed. ?

The Find command does a kind of ping but doesn't select the station.


73

Bob - Dallas,TX ---  kc5ejk@onramp.net  or  kc5ejk@amsat.org  ---
```

12. [MIC-E:1187] MIC-E Ftp Area

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 28 May 1997 14:39:22 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v0302091fafb234de4cce@[208.134.134.40]>
Rendered body type: text/plain

```
If you tried getting into the ftp area on TAPR for the mic-e, the link
should be working fine now.

ftp://ftp.tapr.org/tapr/mic-e/


Cheers - Greg

-----
Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----
```

13. [MIC-E:1188] Errata

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 28 May 1997 14:39:31 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020920afb2353d6311@[208.134.134.40]>
Rendered body type: text/plain

```
Ron Parsons, W5RKN, is keeping the errata information and should be posting
something shortly.  Looks like the build manual has a few errors in it.

I'll also be putting that up as a web page in the next few days.
```

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

14. [MIC-E:1189] Re: REPLAY tracks

From: Mark Sproul <sproul@ap.org>
Date: Wed, 28 May 1997 14:39:37 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03010d01afb23b467d8c@[165.1.27.20]>
Rendered body type: text/plain

>>
>>Version 2.0.0 the REPLAY track from the MENU does not work, however, if you
>>click on the station and hit "R", it works fine
>>
>>2.0.1 has this fixed
>>
>
>
>
>Mac/Aprs Mic-e tracking:
>
>The TAB key in old versions allowed stepping through the stations list
>now the TAB key steps through the different open windows and make one
>window the active foreground window.
>
>>click on the station and hit "R", it works fine
>
>ONLY if you can see the station !!
>
>How does one replay a track when we are zoomed in on a map
>or we are using a detail map that doesn't have the last posit of
>the tracked station displayed. ?
>
>The Find command does a kind of ping but doesn't select the station.
>
>

I will work on it

Mark

_____________________________________|_____________________________
Mark Sproul |Amateur Radio: KB2ICI
Software Engineer @ Assoc Press |
sproul@ap.org |Work: 609-860-7120
North Brunswick, NJ |Fax: 609-860-7129
http://msproul.rutgers.edu/
_____________________________________|_____________________________

15. [MIC-E:1190] Mic-e pwr/fix led

From: "Jim Temple" <templej@iglou.com>
Date: Wed, 28 May 1997 16:08:43 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wWpvh-0003nc-00@iglou1>
Rendered body type: text/plain

Hello all,

Please let me know if the address I sent this to is not the one that is
supposed to be used for posts. I used mic-e@tapr.org.

My observation and question is this:

The instructions state that the pwr/fix let should be RED when power is
applied, when the GPS starts sending data to the mic-e it should be yellow
and when a valid GPS fix is available it should blink GREEN about once a
second.

My unit, with no GPS connection, shows RED for about 1/2 second, then turns
yellow. The yellow led remains indefinetaly, with no GPS connection. If I

attach the GPS to P1, and it has a valid 3D fix on the GPS, the mic-e unit
led is yellow with a RED blink about once a second.

Is there a problem with my unit? Is there possibly a documentation error?

Thanks for any responses to my question.

Sincerely, Jim Temple, KF4ICZ

16. [MIC-E:1191] Re: Mic-e pwr/fix led

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 May 1997 22:05:09 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970528230530.10190D-100000@arctic>
Rendered body type: text/plain

On Wed, 28 May 1997, Jim Temple wrote:

> The instructions state that the pwr/fix let should be RED when power is
> applied, when the GPS starts sending data to the mic-e it should be yellow
> and when a valid GPS fix is available it should blink GREEN about once a
> second.
>
> My unit, with no GPS connection, shows RED for about 1/2 second, then turns
> yellow. The yellow led remains indefinetaly, with no GPS connection. If I
> attach the GPS to P1, and it has a valid 3D fix on the GPS, the mic-e unit
> led is yellow with a RED blink about once a second.

APRSdos REPLY/COMMENT: I think the docs are in error. THe RED is
connected to power and the green to INVERTED DATA. SO with no data, both
the RED and GREEN are on = YELLOW. When data flows the GRENN winks off
causing the normally YELLOW combinaton to occasionally flicker RED. I was
thinking aobut inserting a resistor in series with the RED led to soften
it a bit and make the flickering green more visible to mme..

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

17. [MIC-E:1192] Manual Update

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 29 May 1997 19:28:43 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020907afb3ccb394a3@[208.134.134.40]>
Rendered body type: text/plain

I just uploaded rev 2 of the manual with the correction noted thus far.

Pages that were changed: 5, 9, 11, 13

Page 5
        Changed Figure of 8-pin mic connector to correct pinout
        Moved the installation of pin 8 to first step

Page 9
        Changed Figure of 8-pin mic connector to correct pinout

Page 11
        Edited the PWR/FIX Led Description to read --
The PWR/FIX LED is RED for about a second when power is first applied.
When the GPS is absent or no fix is available, the LED is YELLOW (GREEN
+ RED which looks YELLOW). While a valid GPS fix is available, the LED
will momentarialy flicker RED about once a second.

Page 13
        Changed the figure of the back panel to match production

Rev 2 manual as of 5/29/97 can be downloaded at:
<ftp://ftp.tapr.org/tapr/mic-e/docs/mic-e.manual.pdf>

Cheers - Greg, WD5IVD

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

18. [MIC-E:1193] Mic-e path switch and led

From: "Jim Temple" <templej@iglou.com>
Date: Fri, 30 May 1997 10:46:45 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wXTr9-0004lN-00@iglou2>
Rendered body type: text/plain

Hello to the SIG,

I am slowly but surely proceeding to actually getting my mic-e in service.

I have another couple of observations and questions.

1. In the docs for the mic-e program disk is a file named mic104~1.wpd. This is supposed to be a WordPerfect V6.0 file. I can not seem to get any of my wordprocessers to convert this file to MS Word or MS Works. I just get a few phrases along with mostly what appears as some kind of machine language. I have tried using the enclosed browse.com program to open it with i.e. browse mic104~1.wpd .

I still get mostly machine language. If this doc file is the same as mic104~1.txt, then I do not need any further help, I will just use the .txt file. The difference in file sizes is almost 300,000 bytes, so I suspect that the two doc files are different.

2. When testing the completed mic-e I am unsure of the PATH SWITCH LED indications. The assembly manual indicates that when rotating the switch, it should cause the associated LED to change colors, similar to the MESSAGE SWITCH LED. i.e. 4 no color, 4 green, 4 red, 4 yellow.

When rotating the PATH SWITCH clockwise, I receive the following LED indications. 8 no color, 8 red.

Is anyone getting anything different from the indications I am getting? Should the color indications be similar to the MESSAGE SWITCH LED indications? Possibly the LED indications will change with changes in the path programming?

Sincerely, Jim Temple KF4ICZ

templej@iglou.com

19. [MIC-E:1194] Re: Mic-e path switch and led

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 30 May 1997 11:49:13 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <338F0474.25D4@amsat.org>
Rendered body type: text/plain

Jim Temple wrote:
..
>
> 1. In the docs for the mic-e program disk is a file named mic104~1.wpd.
> This is supposed to be a WordPerfect V6.0 file.

It opens just fine on my Macintosh with MacLINK Plus translation.

> 2. When testing the completed mic-e I am unsure of the PATH SWITCH LED
> indications. The assembly manual indicates that when rotating the switch,
> it should cause the associated LED to change colors, similar to the MESSAGE
> SWITCH LED. i.e. 4 no color, 4 green, 4 red, 4 yellow.
>
> When rotating the PATH SWITCH clockwise, I receive the following LED
> indications. 8 no color, 8 red.

Check pins 5 and 6 of U6 and the LED end of R20 with a voltmeter. You
may have a bad chip, resistor, LED, ...

--
Ron W5RKN

also:
rparsons@bga.com

20. [MIC-E:1195] Manual Download Problem

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 30 May 1997 12:25:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970530102323.0069deb8@pop.primenet.com>
Rendered body type: text/plain

There seems to be a problem with downloading the Mic-E manual from the TAPR site. What I get is and ADOBE reader screen pops up then the screen "hangs" you go to close it out and you get a crash from an invalid page fault.

Is anyone else having this fun????

73, Alan

Alan K. Unangst, WC7R
Phone: (520) 445-1465
FAX: (520) 445-5755
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

21. [MIC-E:1199] Re: Manual Way To Fancy

From: Steve Dimse <sdimse@bridge.net>
Date: Fri, 30 May 1997 16:26:09 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199705302118.RAA05600@bridge.net>
Rendered body type: text/plain

On 5/30/97 4:15 PM Alan K. Unangst (alanwc7r@primenet.com) wrote:

>The manual download is way to fancy, It comes across, adobe reads it but I
>can not get it to save the "mic-e.manual.pdf" file anyplace, nor will it
>print from the browser (MSIE). So I still do not have it. How about making
>it so it downloads like every other file ....let the downloader choose
>where to save it and where and when to open it.
>
>Thanks, Alan
>
This is a function of your browser, not the file. If you are using
Netscape, look under Options/General Options/Helpers. Find the line with
.pdf, and edit it to save the file instead of opening it with Acrobat.

Steve K4HG

22. [MIC-E:1200] Re: Manual Way To Fancy

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 30 May 1997 16:39:49 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v0302090cafb4f8b24e83@[208.134.134.40]>
Rendered body type: text/plain

and make sure you have the 3.0 acrobat reader.

The simplest way is to either 1) on the mac click and hold and select SAVE LINK AS or 2) on windows right clik and do the same thing. This will allow you to save the file even when your browser is not setup correctly.

Anyway, all these files are in the FTP area. Did you look there yet and use a ftp program ?

Greg

>On 5/30/97 4:15 PM Alan K. Unangst (alanwc7r@primenet.com) wrote:
>
>>The manual download is way to fancy, It comes across, adobe reads it but I
>>can not get it to save the "mic-e.manual.pdf" file anyplace, nor will it
>>print from the browser (MSIE). So I still do not have it. How about making
>>it so it downloads like every other file ....let the downloader choose
>>where to save it and where and when to open it.
>>
>>Thanks, Alan
>>
>This is a function of your browser, not the file. If you are using
>Netscape, look under Options/General Options/Helpers. Find the line with
>.pdf, and edit it to save the file instead of opening it with Acrobat.

>
>Steve K4HG

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

23. [MIC-E:1201] THANKS !!!!!!

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Fri, 30 May 1997 17:06:57 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.2.32.19970530150352.0069b1d4@pop.primenet.com>
Rendered body type: text/plain

Thanks to all who answered. Can not get to work under Internet Explorer,
but did as Greg and others, suggested and went to Netscape, changed the
settings, and BINGO...saved as directed.

THANKS to everyone....any ideas about changing the settings in MSIE????

73, Alan

Alan K. Unangst, WC7R
Phone: (520) 445-1465
FAX: (520) 445-5755
E-mail: alanwc7r@primenet.com
Amateur Radio Packet: WC7R @ KB7FRV

24. [MIC-E:1202] I figured it out!

From: "Jim Temple" <templej@iglou.com>
Date: Fri, 30 May 1997 19:33:55 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wXc5a-00055P-00@iglou2>
Rendered body type: text/plain

Hello to the SIG,

I want to thank Ron, W5RKN, for his input concerning my problem with the
PATH SWITCH LED. Armed with his suggestion, I measured the voltages on the
various parts, with the switch itself in the different positions.

What I discovered is R20 and R21 connect to pins on U6 and the voltages
were either on or off, depending on the switch position. This seemed
normal.

So, when measuring the voltages on the LED side of both R20 and R21, I
discovered that the voltages were either on or off depending on the switch
positions. This also seemed normal.

I further discovered that the voltages of the resisters, depending on the
switch position, were either both on, both off, one on/other off, and one
off/other on. This matched perfectly the voltage sequence that would have
to be present to demand the 4 colors associated with the LED. i.e. None,
green, red, yellow. Through the process of elimination, I determined that
the green side of the LED does not light, even though there is a voltage
present that should light it. This would account for my seeing only no
color or only red color.

So I will be buying a red/green led to install.

The only thing I have a question about is that when R20 has voltage it is
4.68V (this is attached to the GREEN side and doesn't work) and when R21
has voltage it is 1.74V (this is attached to the RED side and does work).
Does this voItage difference have any significance or is this normal with a
two color LED?

I thank the SIG for their help.

Sincerely, Jim Temple, KF4ICZ

25. [MIC-E:1203] Re: I figured it out!

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 30 May 1997 19:48:26 -0500 (CDT)
To: mic-e@tapr.org

Message-ID: <338F73A9.502A@amsat.org>
Rendered body type: text/plain

Jim Temple wrote:
..
> The only thing I have a question about is that when R20 has voltage it is
> 4.68V (this is attached to the GREEN side and doesn't work) and when R21
> has voltage it is 1.74V (this is attached to the RED side and does work).
> Does this voItage difference have any significance or is this normal with a
> two color LED?
>
Sounds like an effect of the bad (or disconnected) LED.
--
Ron W5RKN

also:
rparsons@bga.com

26. [MIC-E:1204] Trippmate to Mic-e

From: np3c@juno.com (Stephen J Werner)
Date: Fri, 30 May 1997 20:49:54 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970530.213948.8279.0.NP3C@juno.com>
Rendered body type: text/plain

Can someone who is currently using a Mic-e and Tripmate pass along the
correct wiring information? I hope we can power the Tripmate via the
Mic-e. Thanks Steve Please reply at NP3C@JUNO.COM

27. [MIC-E:1205] Re: Trippmate to Mic-e

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 30 May 1997 22:24:01 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.865048663.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

> Can someone who is currently using a Mic-e and Tripmate pass along the
> correct wiring information? I hope we can power the Tripmate via the
> Mic-e. Thanks Steve Please reply at NP3C@JUNO.COM
>

Hi Steve,

I am using a tripmate but with a beta Mic-E which is wired a little different
for power.... I power both the Mic-E and tripmate from an external power
source -- a LM317T regulator hooked to the vehicle power. The regulator
is programmed to about 8.2V which is high enough to run the Mic-E without
bypassing it's own regulator (for safety, like when I run it off other power
sources when not in the car). 8.2V is also low enough for the tripmate
which has a maximum input voltage of 11V due to the regulator chip it uses.
The details on wiring the tripmate can be found in the FAQ:
ftp://sundae.triumf.ca/pub/peter/tripmate.faq
Off the top of my head I don't remember which pin it is on the DB-9,
but it is documented in the faq. Don't forget to put a jumper on the correct
pair of 3 pins in the batter case (pull off the battery wiring plug).

Let me know if this is not enough info and I'll try to dig out the
details.

Again, the production Mic-E is different, so you may in fact be able to
much more easily power the tripmate from the back of the Mic-E.....

73 de Alan N2YGK

June 1997

Original source file: mic-e.9706
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9706

1. [MIC-E:1206]

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 1 Jun 1997 16:14:07 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020923afb78b629b7e@[208.134.134.40]>
Rendered body type: text/plain

I have gotten several messages from folks that couldn't open the Word 6.0
file included on the disk. Ron Parsons converted it over to Word (RTF)
format and I have uploaded into on the docs folder in the MIC-E ftp area.

I'll put a link on the web page later this evening.

Until then, you can get it at: ftp://ftp.tapr.org/tapr/mic-e/docs/mic104-1.zip

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

2. [MIC-E:1211] Cliff problem with the MIC-E

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 1 Jun 1997 23:19:11 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v0302090fafb7f978b339@[208.134.134.40]>
Rendered body type: text/plain

Cliff -- maybe you can explain in some detail exactly what problem or
problem(s) you are having.

I am sure that the group can help you get your unit on the air.

Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

3. [MIC-E:1218] Tripmate to Mic-e (Joshua 123)

From: np3c@juno.com (Stephen J Werner)
Date: Sat, 7 Jun 1997 11:15:58 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970607.120604.8287.0.NP3C@juno.com>
Rendered body type: text/plain

Tnx to those who have been helping me get my Mic-e up and running. One
last question about the pin outs on the Tripmate. Pins 2&3 out on the
Tripmate will go to pin 3 in on the Mic-e. Pin 5 out on the Tripmate will
go to pin 5 in on the Mic-e. Pin 9 out on the Tripmate will go to a +5v
power source possibly pin 4 in on the Mic-e internally jumpered from my
mic power. This will only be possible if the Mic-e + Tripmate don't draw
more than 100 milliamperes. Yes, I am aware of the potential ground loop
problem and degraded audio problems. That brings me to my question, What
should I do with pin 4 out of the tripmate? This is the DTR. Do I jumper
it to my +5v power source? Should I jumper with a resistor / diode to my
power source? Or do I need it connected at all? Any help would be
appreciated. Tnx Steve. Please respond to NP3C@JUNO.COM

4. [MIC-E:1219] MIC-E causes constant key with R/S 212

From: "Jim Temple" <templej@iglou.com>
Date: Sun, 8 Jun 1997 13:24:29 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wamax-0002ER-00@iglou1>
Rendered body type: text/plain

Hello to the SIG,

A while back I recall a post that discussed the MIC-E causing a constant transmit key when the mic-e is turned off.

I have a Radio Shack 212, and although the whole system seems to work great together, when I turn off the mic-e, the 212 keys up and will not stop transmiting. The only way I can stop the key is to turn on the mic-e or turn off the 212.

The earlier post said to move the high side of R26 to MicPower. I have been studying and thinking about this and do not know what the MicPower is.

If anyone knows exactly what or where to connect the high side of R26 to, please post it to the SIG. Thanks.

BTW, I believe I am the only APRS user in the Louisville, KY area that I know of. The system works great, but I would like some company on my display.

So long for now,

Jim Temple, KF4ICZ, templej@iglou.com

5. [MIC-E:1220] Re: MIC-E causes constant key with R/S 212

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 8 Jun 1997 14:00:40 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970608150109.3873F-100000@arctic>
Rendered body type: text/plain

On Sun, 8 Jun 1997, Jim Temple wrote:

> A while back I recall a post that discussed the MIC-E causing a constant
> transmit key when the mic-e is turned off.
> The earlier post said to move the high side of R26 to MicPower. I have
> been studying and thinking about this and do not know what the MicPower is.

APRSdos REPLY/COMMENT: MicPower is the power pin in your mic connector from the radio. The idea is to tie R26 to a source of power which is on when the radio is on...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

6. [MIC-E:1221] Re: Tripmate to Mic-e (Joshua 123)

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sun, 8 Jun 1997 21:34:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.865823425.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

> Tnx to those who have been helping me get my Mic-e up and running. One
> last question about the pin outs on the Tripmate. Pins 2&3 out on the
> Tripmate will go to pin 3 in on the Mic-e. Pin 5 out on the Tripmate will
> go to pin 5 in on the Mic-e. Pin 9 out on the Tripmate will go to a +5v
> power source possibly pin 4 in on the Mic-e internally jumpered from my
> mic power. This will only be possible if the Mic-e + Tripmate don't draw
> more than 100 milliamperes. Yes, I am aware of the potential ground loop
> problem and degraded audio problems. That brings me to my question, What
> should I do with pin 4 out of the tripmate? This is the DTR. Do I jumper
> it to my +5v power source? Should I jumper with a resistor / diode to my
> power source? Or do I need it connected at all? Any help would be
> appreciated. Tnx Steve. Please respond to NP3C@JUNO.COM
>

I recommend against powering the tripmate and mic-e from the mic power. I think you will find you may have exceeded your power budget. Or worse, you may inadvertently short a pin like I did on my Kenwood TM-733A and get a crash course in surface mount soldering. At least Kenwood puts fuses in! My darn Yaesu FT-840 burned two inches of circuit trace when I shorted it. And, yes, I do have a rep locally for trashing new radios:-)
73 de Alan N2YGK
PS: OK, I admit it. The FT-840 only burned one inch -- each time I shorted it:-)

7. [MIC-E:1222] Re: MIC-E digest 151

From: np3c@juno.com (Stephen J Werner)
Date: Sun, 8 Jun 1997 22:26:16 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970608.231349.8287.0.NP3C@juno.com>
Rendered body type: text/plain

HI, the fix for your problem is to remove R26 from the VCC. This was my problem using a FT2400. Remove the leg of R26 toward the faceplate jumper it to pin 16 of the personality connecter (the mic power). Steve, NP3C

8. [MIC-E:1223] 941 audio??

From: "David W. McNeil" <ki5vm@flash.net>
Date: Sun, 8 Jun 1997 23:21:28 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339B7747.1492@flash.net>
Rendered body type: text/plain

Anyone had any luck with mic-e operation from the rj-45 audio???

9. [MIC-E:1224] Re: 941 audio??

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 9 Jun 1997 08:34:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339C041A.57AA@amsat.org>
Rendered body type: text/plain

David W. McNeil wrote:
>
> Anyone had any luck with mic-e operation from the rj-45 audio???

Are you using the extra op-amp to boost the audio input from the radio?

--
Ron W5RKN

also:
rparsons@bga.com

10. [MIC-E:1225] Re: MIC-E digest 151

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Jun 1997 08:35:34 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970609093111.1802B-100000@arctic>
Rendered body type: text/plain

On Sun, 8 Jun 1997, Stephen J Werner wrote:

> HI, the fix for your problem is to remove R26 from the VCC.

APRSdos REPLY/COMMENT: If you do this, then your PTT LED will not work properly. It will then only indicate the condition of PTT. It will then no longer alert you to when you have a POSIT ready to go, which was its main purpose...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

11. [MIC-E:1226] Re: (Form) Comments from your Home Page from

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 9 Jun 1997 08:53:34 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339C094B.91F@amsat.org>
Rendered body type: text/plain

I checked my header wiring for my Kenwood 742A (which uses the same mic connection as the 642) and page 9 in the manual is correct. Are you sure you plugged the header in with the correct orientation?

All jumpers are on JPL/JPC except 5 which is on JPC/JPL.

Let me know how things work out.

Ron

Dorothy Jones, KA5DWR wrote:
>
> >Date: Sun, 8 Jun 1997 07:43:37 -0500 (CDT)
> >Reply-to: bill.mcnish@hdtinfo.com
> >To: ka5dwr@tapr.org
> >From: bill.mcnish@hdtinfo.com
> >Subject: (Form) Comments from your Home Page from
> >
> >Name: Bil G McNish
> >Callsign: WD8OHA
> >Email: bill.mcnish@hdtinfo.com
> >
> >Address: P. O. Box 257
> >   5173 Hoffman St
> >City: Elkton, Mi. 48731 USA
> >
> >
> >---Comments--
> >I obtained the Mic-E at Dayton and at the same time joined TAPR..
> >
> >Anyway I have the Kenwood TM-642A transciever, and apparently instruction
> >
> >on page 9 is incorrect for this unit.
> >
> >Also could you tell me the default settings for the jumpers jpr/jpc/jpl
> >
> >are...
> >
> >The TM-642A uses the RJ-45 mike connector.
> >

--
Ron W5RKN

also:
rparsons@bga.com

12. [MIC-E:1227] Re: MIC-E digest 151

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 9 Jun 1997 09:40:09 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970609102644.1802h-100000@arctic>
Rendered body type: text/plain

On Sun, 8 Jun 1997, Stephen J Werner wrote:

> HI, the fix for your problem is to remove R26 from the VCC. This was my
> problem using a FT2400. Remove the leg of R26 toward the faceplate jumper
> it to pin 16 of the personality connecter (the mic power). Steve, NP3C

APRSdos REPLY/COMMENT: This is the correct mod. My previous message
commented about removing R26 as being the wrong thing to do. But I had
missread his message and didnt see that he DID say to then re-connect it
to pin 16 of the personalilty header. This is the correct mod...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

13. [MIC-E:1228] Garmin-20 GPS placement

From: Robert Winingham <kc5ejk@onramp.net>
Date: Mon, 9 Jun 1997 13:22:59 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102800afc1e9031a2f@[206.50.200.106]>
Rendered body type: text/plain

Which way are people orenting the Garmin-20 GPS
on the production Mic-e.

Each way I tried has a resistor under the antenna socket.
R16 and a small soder pad are just under my
antenna connection so moving the R-16 to other side
may not help.

Placing Antenna socket up doesn't have clearance
when I use my modified plug which needs a 5/8 inch

standoff

I am guessing the perfered position is
with data cable exiting towards the front of the PCB,
near the path and message switches, but which
side up ??

I am not using a right angle plug and I also wonder what is the
standoff height needed when using the rightangle type of connector.

PS

Greg, the Mic-E docs look real nice, Thanks for letting me
be part of the group.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

14. [MIC-E:1229] Beta Testers -- wrap up stuff

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 9 Jun 1997 14:48:26 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020947afc20e40578c@[192.168.1.2]>
Rendered body type: text/plain

MIC-E beta testers. Don't forget you need to let Dorothy know who needs
MIC-E pic chip upgrades to get your beta units to the production version
firmware level. I want to have a batch together before we contact Gwyn to
send us a bunch to send out.

Also, you need to let Dorothy at the office know if you want any additional
MIC-E production units as was posted at the conclusion of the beta testing.
We sold another 10 at HamCom and I think we have about 30 left at the
office before we wait for 10 orders and place another kit order.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

15. [MIC-E:1230] Tripmate & Mic-e

From: Ed <edrohner@internetwork.net>
Date: Mon, 9 Jun 1997 16:07:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339C7D8B.623B@internetwork.net>
Rendered body type: text/plain

Does anyone have any pinout information for connecting a Tripmate GPS to
the Mic-e. I just bought one(Mic-e) and am new to APRS but I have been
using the Tripmate and Street Atlas.

Also, how would you configure an IC-2AT handi-talkie PTT/Mic and Audio
jacks to the mic-e board.

Thanks for your help..

Ed
WB5SLJ

edrohner@internetwork.net

16. [MIC-E:1231] Re: Beta Testers -- wrap up stuff

From: "Rich Garcia" <n2czf@magg.net>
Date: Mon, 9 Jun 1997 16:27:54 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706092126.RAA11039@grumpy.magg.net>
Rendered body type: text/plain

Humm...a bunch of PICs ? I did not know TAPR was going to do that, I
had to fumble with William about the price to get him from $20 down
to $15. I thought we had to buy them from him...

What is Dorothy's address ? I will e-mail her and let her know that I
will be buying one but to delay mine a couple of months. I got my
wife working 2 jobs now so i should be able to get my new one sooner
<grin>! By the way I am not joking hi hi...

> Date: Mon, 9 Jun 1997 14:48:26 -0500 (CDT)
> Reply-to: mic-e@tapr.org
> From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
> To: mic-e@tapr.org
> Subject: [MIC-E:1229] Beta Testers -- wrap up stuff

> MIC-E beta testers. Don't forget you need to let Dorothy know who needs
> MIC-E pic chip upgrades to get your beta units to the production version
> firmware level. I want to have a batch together before we contact Gwyn to
> send us a bunch to send out.
>
> Also, you need to let Dorothy at the office know if you want any additional
> MIC-E production units as was posted at the conclusion of the beta testing.
> We sold another 10 at HamCom and I think we have about 30 left at the
> office before we wait for 10 orders and place another kit order.
>
> Cheers - Greg
>
> -----
> Greg Jones, WD5IVD
> Austin, Texas
> wd5ivd@tapr.org
> http://www.tapr.org/~wd5ivd
> -----
>
>
>
Rich Garcia N2CZF
n2czf@magg.net
n2czf@qsl.net
Jupiter Farms Fl.
http://www.magg.net/~n2czf/aprs.html

17. [MIC-E:1232] Tripmate to Mic-e Stereo Plug

From: Chris Stevens   KC5SYS <stevie@fiftysix.org>
Date: Mon, 9 Jun 1997 17:41:52 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <1.5.4.32.19970609222709.0068c3f4@fiftysix.org>
Rendered body type: text/plain

Howdy everyone,

I have been trying to wire my tripmate to the stereo mini plug of the Mic-E.
>From all that I've read, it should work as well as the serial plug. I'm
powering the tripmate with batteries for testing, but I also have the cig.
lighter adapter that I plan to use when everything works.
Here's what I've got so far:

Tripmate   Stereo Plug
Pins 2 and 3 ---->ring (tx/rx)
Pin 4------------>tip (for DTR powerup)
Pin 5------------>shield (ground)

Can anybody tell me if this is right and will work?? I'm also having
trouble getting the RX led to light when the radio (icom 2350) is receiving.
That may be my fault, but I can't be sure.

Thanks in advance. Please reply to stevie@fiftysix.org.
Chris Stevens   KC5SYS
President, W5AC Texas A&M ARC

Mechanical Engineering
Texas A&M University

****
*   stevie@fiftysix.org   Amateur Radio: KC5SYS   *
*   cgs6115@acs.tamu.edu   W5AC Texas A&M University *
* http://www.fiftysix.org/   Amateur Radio Club   *

```
*    TAMU Class of 1998          http://w5ac.tamu.edu      *
************************************************************
```

18. [MIC-E:1233] Interfacing Mic-E to Icom IC-2AT

```
From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 9 Jun 1997 17:52:25 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339C87C4.36E8@amsat.org>
Rendered body type: text/plain
```

Oops, this was supposed to go into the manual: Sorry.

I interfaced my Icom IC-2AT to the MIC-E by connecting Microphone Audio (Mic-E DIP header 12) to the tip of the external mic connector on the IC-2AT (sub-mini phone plug) and Microphone PTT (Mic-E DIP header 14) through a 2.2k resistor to the tip also. Ran Speaker Output from the IC-2AT (mini phone plug tip) to Receiver Audio (Mic-E DIP header 13). Ran grounds appropriately.

This may work with other talkies that shape PTT and Mic.

Ron

Ed wrote:
>
..>
> Also, how would you configure an IC-2AT handi-talkie PTT/Mic and Audio
> jacks to the mic-e board.
>
> Thanks for your help..
>
> Ed
> WB5SLJ
>
> edrohner@internetwork.net

--
Ron W5RKN

also:
rparsons@bga.com

19. [MIC-E:1235] Re: Tripmate & Mic-e

```
From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 10 Jun 1997 00:50:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102802afc2474c7ffb@[206.50.123.55]>
Rendered body type: text/plain
```

>Does anyone have any pinout information for connecting a Tripmate GPS to
>the Mic-e. I just bought one(Mic-e) and am new to APRS but I have been
>using the Tripmate and Street Atlas.
>
>Also, how would you configure an IC-2AT handi-talkie PTT/Mic and Audio
>jacks to the mic-e board.
>
>Thanks for your help..
>
>Ed
>WB5SLJ
>
>edrohner@internetwork.net

TripMate Pinout:
Pin #1   nc
Pin #2   RX --Black wire
Pin #3   TX --Brown wire
Pin #4   DTR--Red wire, assert to turn on
Pin #5   GND--Orange wire, connects to GND of power
Pin #6   nc
Pin #7   nc
Pin #8   nc
Pin #9   RI --Yellow wire--goes to center pin of Power Connector.
                (Special thnx to Gould Smith WA4SXM for the above pinout)

```
                          Tripmate
 Mic-E                    DB-9 Male
==========                ===========
```

```
                               |-----2 RX
Tip ---------------------------|
                               |-----3 TX

GND --------------------------------5 Gnd

??  --------------------------------4 +5 Volts via a 220-500 Ohm Resistor
                                     Or some RS-232 handshake line
                                      that is active high
```

We need to add this to the build notes
I have a Tripmade but I am using a Garmin-20

I don't see any problem wire oring the two pins
any other comments ???

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

20. [MIC-E:1236] Re: Tripmate & Mic-e

From: Robert Winingham <kc5ejk@onramp.net>
Date: Tue, 10 Jun 1997 15:30:39 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102801afc3649dcec5@[206.50.124.21]>
Rendered body type: text/plain

>>Does anyone have any pinout information for connecting a Tripmate GPS to
>>the Mic-e.

My answer posted yesterday got out before I have finished.
My tip-ring diagram was not complete or correct , but correct wiring
info is in the documentaion. The Tripmate Pinout diagram was correct.

(TripMate activation line)

The signal for the tripmate DTR line can be any
plus voltage that is used to power the tripmat , just use a resistor
to limit current. I would guess that when you power up the Tripmate
you also want it to activate ??

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

21. [MIC-E:1237] ? re mic-e something wrong???

From: Paul Carlin <pcarlin@wco.com>
Date: Tue, 10 Jun 1997 19:37:16 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339DF0C5.207A@wco.com>
Rendered body type: text/plain

Hi I have completed the mic-e board and plugged it into a 742 (also
tried a 733) to no avail it xmits a packet and seems to work perfectly
until u see the data the data is my call and swstrt-7/1:'22bl*q out to
32 bytes this is very consistant only the 14 digit number at the end
changes. At first i guessed that it was the wrong baud rate-it was 4800
then I guessed wrong NEMA string - tried many , could it be the gps no
tried gamin 45 and garmin 12xl seem the parsing of the data is wrong.. I
thought that i have tried everything, but that cant be true it isnt
working yet so I ask you all what could this be I have the blinking data
lite ect. every thing seems ok except the data... I am not that familar
with programming the pic but the program seems strait forward.. I am
sure it is something i have forgotten to do, thanks paul

22. [MIC-E:1238] Re: ? re mic-e something wrong???

From: healy@sierra.net (Bill Healy)
Date: Wed, 11 Jun 1997 00:05:30 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706110142.AA18771@diamond.sierra.net>
Rendered body type: text/plain

>Hi I have completed the mic-e board and plugged it into a 742 (also
>tried a 733) to no avail it xmits a packet and seems to work perfectly
>until u see the data the data is my call and swstrt-7/1:'22bl*q out to
>32 bytes this is very consistant only the 14 digit number at the end
>changes. At first i guessed that it was the wrong baud rate-it was 4800
>then I guessed wrong NEMA string - tried many , could it be the gps no
>tried gamin 45 and garmin 12xl seem the parsing of the data is wrong.. I
>thought that i have tried everything, but that cant be true it isnt
>working yet so I ask you all what could this be I have the blinking data
>lite ect. every thing seems ok except the data... I am not that familar
>with programming the pic but the program seems strait forward.. I am
>sure it is something i have forgotten to do, thanks paul

You haven't done anything wrong, that's the new compressed data format. It
may look strange, but it's got all the posit and telem data in there. That
one of the reasons the packet burst can be so short. Only the newer versions
of APRS will be able to decode it.

Bill N8KHN

23. [MIC-E:1239] MIC-E document

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 11 Jun 1997 07:34:26 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <339E99DF.7A93@amsat.org>
Rendered body type: text/plain

The archive MIC104.ZIP in ftp://ftp.tapr.org/tapr/mic-e/docs/ contains
the file MIC104.RTF. This file is an RTF version of MIC104~1.WPD on the
MIC-E diskette. It opens properly with Word on the Mac, Wordpad on
Windows 95, and perhaps others.

--
Ron W5RKN

also:
rparsons@bga.com

24. [MIC-E:1241] Re: ? re mic-e something wrong???

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 11 Jun 1997 09:51:35 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.866039936.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

Also, the appendix in the documentation describes the message formats if
you are having trouble getting to sleep some night:-)
/a

25. [MIC-E:1242] Re: MIC-E and R/S 212

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Jun 1997 10:05:13 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970611110041.5331R-100000@arctic>
Rendered body type: text/plain

This may work. But actually the value of R26 is 10K and this may not be
sufficient to overcome the load of the "turned-off" Mic-E with a supply
voltage of only 5 volts.... Try changing it by "halves" until it works. I
would think that somethig greter than 2.2 K should work...

 On Wed, 11 Jun 1997, Jim Temple wrote:

> A couple of days ago, I got advice to lift the faceplate side of R26 and
> connect the now unattached leg of R26 to pin 16 of the personality header.
> This morning I did that and it resulted in no change with my problem of the
> radio keying when the mic-e is turned off. I confirmed that pin 16 of the
> personality header is 4.97V. So, at present the faceplate side (LED side)
> of R26 is wired to pin 16 or the personality header.
>
> I am at a loss to figure out how to prevent the radio from keying when the
> mic-e is turned off. Possibly, I mis interpreted the instructions and
> should connect pin 16 of the personality header to the vacant hole left
> when lifting the R26 lead?? I will not do this now because I don't think I
> mis interpreted this.
>
> What do you think? I am in need of your expertise.
>

> Thanks Bob,
>
> Jim Temple, KF4ICZ
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

26. [MIC-E:1243] Re: Anything new?

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Jun 1997 12:26:01 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970611132331.29013H-100000@arctic>
Rendered body type: text/plain

If this readio is at the repeater site, then you dont need its receiver on
the voice channel. Just pick off the receive audio from the repeater.
THen you can use the Transceivers recevier on 145.79 to listen first
before transmitting...

But if the transcieer has no access to the repeater audio, then it looks
like the only solution is another receiver...

 On Wed, 11 Jun 1997, Faust, Greg (MIS, GEFanuc, NA)
wrote:

> Bob,
>   Currently I'm using a split frequency transceiver to receive packets on
> our voice repeater from MIC-Es and digipeat them on 145.79 using a single
> TNC-3. It works, but it collides occasionally with traffic on 145.79
> because it doesn't listen first.
>   Is there something on the horizon that works better than this setup?
> Greg
>
>
> Greg Faust   N4PGS
> GE Fanuc Automation
> Phone: 804-978-5791   (8*277-5791)
> Email: greg.faust@cho.ge.com
>
> --
> Greg Faust
> Advanced Quality Control Engineering
> GE Fanuc Automation
> Phone: 804-978-5791   (8*277-5791)
> Email: greg.faust@cho.ge.com
>
>
> begin 600 WINMAIL.DAT
> M>)\^(CP1`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
> M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`06 `P`.````S0<&``L`
> M#0`+`"@``P`H`0$@@ ,`#@```,T'!@`+``T`"P`Z``,`.@$!"8 !`"$```!"
> M.# R0D9%-D4Q13%$,#$Q0C@S0C P.# U1D5!,D%#,@!!!P$-@ 0``@````(`
> M`@`!!(!``X```!!;GET:&EN9R!N97<_`.L$`0.0!@"0!0``&0````,`!A!W
> MA3I8`P`'$!0"```>``@0`0```&4```!"3T(L0U524D5.5$Q924U54TE.1T%3
> M4$Q)5$9215%514Y#651204Y30T5)5D525$]214-%259%4$%#2T544T].3U52
> M5D])0T5215!%051%4D923TU-24,M15-!3D1$24=)4$5!``````,`$! `````
> M`P`1$ `````"`0D0`0```(P"```"(`@``JP0``$Q:1G5O%?NP_P`*`0\"%0*D
> M`^0%ZP*#`% 3`U0"`&-H"L!S971N,@8`!L,"@S(#Q0(`<(1R<1(B<W1E;0*#
> M=C,/?Q"'- /&!Q,"@S7;$PP6V#83#!4M?0J ",_%"=D[&[\Q,C@"@ J!@PVQ
> M"V!N9S$P,Q20*PL*&0(R$O!C`$ @0MAO8BP*A2% 0PAP&\ !`C!L>2!))VT@
> MAG4`D![ (&$@<PM0)FD%0 -097$*4&YC"2'P='(`<6-E:7:S!) CP&\@&\ D
> M(R *L'QC:Q(`!" "("6P"' @&'9O:20@)+%P96$/%! %P -2!=!)0RU%@P0@
> M`'!D(&1I9P4@&R;!(\!H%" ELC$T-5@N-SDB2")Q;"4@5+).)Y S+B(`!4!W
> M!;# :W,L(&)U!4 C`8\;,2+P#; EH6-C80"0_P(@!T AX0/P*+ CP@W0)E!U
> M*/EB!9!A(E E(",!9/)O!Y!N)P5 (O 4`0.@TRX`$>!T+B#G200@*+'O&\ B
> MP -P$@!H(G(EP2BQY"!H!;!I>C*C*($K,_\NT0))&(1P#*R! `BP!(`J'5P
> M/PJ%1QO 9PJ%GS9L"OL4D@P"-A,@1B\1@P5 .;9.-%!'4S='*3@H,38V$$4Y
> M46YU;2X@02NP`W%T+/$W15 !,Q!N93H@.# TP"TY-S@M-2EP(("!(4 H."HR
> M-S<^<[HI-T5%`, #$#W@(G!*&<N9CER0!&P;RZH9V4N!:!M.PLW-SC/'YA"
> MOQ=C`= @+46O1K]_1\](S3@/-;DY5#J?.Z-!G&1V`' D("@`474'0+\C`"'P
> M"% ", -@`R!%'L#_"X )X 40'L UMCP//1\^+U\_/T!/05]";1KA`%>@'@!P
> M``$````.````06YY=&AI;F<@;F5W/P````(!<0`!````%@````&\=HJ$?38Q
> M_O+B,Q'0G#T`H"0/.:<``$ `.0"$!?F&BG:\`0,`\3\)! ```P`F```````#

> M`#8```````(!1P`!````-0```&,]55,[83U-05)+-# P.W]1T4[;#U604-(
> M3S)-25-'12TY-S V,3$Q-S$Q-#!:+3(S-C<``````@'Y/P$```!'````````
> M`-RG0,C 0A :M+D(`"LOX8(!``````````"]//4=%+T]5/4=%34E30TA/5D$O
> M0TX]4D5#25!)14Y44R]#3CU'4D5'1@``'@#X/P$````?````1F%U<W0L($=R
> M96<@*$U)4RP@1T5&86YU8RP@3D$I```"`?L_`0```$<`````````W*= R,!"
> M$!JTN0@`*R_A@@$`````````+T\]1T4O3U4]1T5-25-#2$]602]#3CU214-)
> M4$E%3E13+T-./4=214=&```>`/H_`0```!\```!&875S="P@1W)E9R H34E3
> M+"!'149A;G5C+"!.02D``$ `!S"$!?F&BG:\`4 `"#" P\>1BG:\`0,`#33]
> M/P```@$4- $````0````5)2AP"E_$!NEAP@`*RHE%QX`/0`!`````0``````
> M```+`"D```````L`(P```````@%_```$```!.````/&,]55,E83U-05)+-# P
> M)7]1T4E;#U604-(3S)-25-'12TY-S V,3$Q-S$Q-#!:+3(S-C= =F%C:&\Q
> 6;6ES9V4N8VAO+F=E+F-O;3X```#P;3 V
> `
> end
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---

27. [MIC-E:1245] Re: MIC-E digest 152

From: "Jim Temple" <templej@iglou.com>
Date: Thu, 12 Jun 1997 14:26:27 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0wcFSM-0007U2-00@iglou2>
Rendered body type: text/plain

Hello to the SIG,

I want to thank everyone for their help concerning my problem with the
constant key of my R/S 212 with the mic-e turned off, especilly Bob, WB4APR
and Stephen, NP3C.

The problem is fixed. The solution for this problem is to lift the R26
lead that is oriented toward the faceplate and wire that lead to pin 16 or
the personality header. If that doesn't work, as it didn't in my case,
progressively reduce the R26 value until it does work. In my case, a value
of 5.6K for R26 is perfect!

Mission accomplished. Thanks again.

Jim KF4ICZ

> From: mic-e@tapr.org
> To: mic-e@tapr.org
> Subject: [MIC-E:1228] MIC-E digest 152
> Date: Monday, June 09, 1997 2:41 PM
>
>   MIC-E Digest 152
>
> Topics covered in this issue include:
>
>   1) Re: MIC-E causes constant key with R/S 212
>   by Bob Bruninga <bruninga@nadn.navy.mil>
>   2) Re: Tripmate to Mic-e (Joshua 123)
>   by Alan Crosswell <alan@watsun.cc.columbia.edu>
>   3) Re: MIC-E digest 151
>   by np3c@juno.com (Stephen J Werner)
>   4) 941 audio??
>   by "David W. McNeil" <ki5vm@flash.net>
>   5) Re: 941 audio??
>   by "Ronald G. Parsons" <w5rkn@amsat.org>
>   6) Re: MIC-E digest 151
>   by Bob Bruninga <bruninga@nadn.navy.mil>
>   7) Re: (Form) Comments from your Home Page from
>   by "Ronald G. Parsons" <w5rkn@amsat.org>
>   8) Re: MIC-E digest 151
>   by Bob Bruninga <bruninga@nadn.navy.mil>
>   9) Garmin-20 GPS placement
>   by Robert Winingham <kc5ejk@onramp.net>
>
> --
>
> Date: Sun, 8 Jun 1997 15:03:35 -0400 (EDT)

> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: mic-e@tapr.org
> Subject: Re: MIC-E causes constant key with R/S 212
> Message-ID: <Pine.SOL.3.96.970608150109.3873F-100000@arctic>
>
> On Sun, 8 Jun 1997, Jim Temple wrote:
>
> > A while back I recall a post that discussed the MIC-E causing a
constant
> > transmit key when the mic-e is turned off.
> > The earlier post said to move the high side of R26 to MicPower. I have
> > been studying and thinking about this and do not know what the MicPower
is.
>
> APRSdos REPLY/COMMENT: MicPower is the power pin in your mic connector
> from the radio. The idea is to tie R26 to a source of power which is on
> when the radio is on...
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
> ------------------------------
>
> Date: Sun, 8 Jun 97 22:30:25 EDT
> From: Alan Crosswell <alan@watsun.cc.columbia.edu>
> To: mic-e@tapr.org
> Cc: mic-e@tapr.org
> Subject: Re: Tripmate to Mic-e (Joshua 123)
> Message-ID: <CMM.0.90.4.865823425.alan@manila.cc.columbia.edu>
>
> > Tnx to those who have been helping me get my Mic-e up and running. One
> > last question about the pin outs on the Tripmate. Pins 2&3 out on the
> > Tripmate will go to pin 3 in on the Mic-e. Pin 5 out on the Tripmate
will
> > go to pin 5 in on the Mic-e. Pin 9 out on the Tripmate will go to a +5v
> > power source possibly pin 4 in on the Mic-e internally jumpered from
my
> > mic power. This will only be possible if the Mic-e + Tripmate don't
draw
> > more than 100 milliamperes. Yes, I am aware of the potential ground
loop
> > problem and degraded audio problems. That brings me to my question,
What
> > should I do with pin 4 out of the tripmate? This is the DTR. Do I
jumper
> > it to my +5v power source? Should I jumper with a resistor / diode to
my
> > power source? Or do I need it connected at all? Any help would be
> > appreciated. Tnx Steve. Please respond to NP3C@JUNO.COM
> >
>
> I recommend against powering the tripmate and mic-e from the mic power.
> I think you will find you may have exceeded your power budget. Or worse,
> you may inadvertently short a pin like I did on my Kenwood TM-733A and
> get a crash course in surface mount soldering. At least Kenwood puts
> fuses in! My darn Yaesu FT-840 burned two inches of circuit trace when
> I shorted it. And, yes, I do have a rep locally for trashing new
radios:-)
> 73 de Alan N2YGK
> PS: OK, I admit it. The FT-840 only burned one inch -- each time I
shorted
>   it:-)
>
>
> ------------------------------
>
> Date: Sun, 8 Jun 1997 23:17:19 EST
> From: np3c@juno.com (Stephen J Werner)
> To: mic-e@tapr.org
> Subject: Re: MIC-E digest 151
> Message-ID: <19970608.231349.8287.0.NP3C@juno.com>
>
> HI, the fix for your problem is to remove R26 from the VCC. This was my
> problem using a FT2400. Remove the leg of R26 toward the faceplate jumper
> it to pin 16 of the personality connecter (the mic power). Steve, NP3C

>
>
> ------------------------------
>
> Date: Sun, 08 Jun 1997 23:23:52 -0400
> From: "David W. McNeil" <ki5vm@flash.net>
> To: mic-e@tapr.org
> Subject: 941 audio??
> Message-ID: <339B7747.1492@flash.net>
>
> Anyone had any luck with mic-e operation from the rj-45 audio???
>
>
> ------------------------------
>
> Date: Mon, 09 Jun 1997 13:24:44 +0000
> From: "Ronald G. Parsons" <w5rkn@amsat.org>
> To: mic-e@tapr.org
> Subject: Re: 941 audio??
> Message-ID: <339C041A.57AA@amsat.org>
>
> David W. McNeil wrote:
> >
> > Anyone had any luck with mic-e operation from the rj-45 audio???
>
> Are you using the extra op-amp to boost the audio input from the radio?
>
> --
> Ron W5RKN
>
> also:
> rparsons@bga.com
>
>
> ------------------------------
>
> Date: Mon, 9 Jun 1997 09:32:45 -0400 (EDT)
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: mic-e@tapr.org
> Subject: Re: MIC-E digest 151
> Message-ID: <Pine.SOL.3.96.970609093111.1802B-100000@arctic>
>
> On Sun, 8 Jun 1997, Stephen J Werner wrote:
>
> > HI, the fix for your problem is to remove R26 from the VCC.
>
> APRSdos REPLY/COMMENT: If you do this, then your PTT LED will not work
> properly. It will then only indicate the condition of PTT. It will then
> no longer alert you to when you have a POSIT ready to go, which was its
> main purpose...
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
> ------------------------------
>
> Date: Mon, 09 Jun 1997 13:46:55 +0000
> From: "Ronald G. Parsons" <w5rkn@amsat.org>
> To: bill.mcnish@hdtinfo.com
> Subject: Re: (Form) Comments from your Home Page from
> Message-ID: <339C094B.91F@amsat.org>
>
> I checked my header wiring for my Kenwood 742A (which uses the same mic
> connection as the 642) and page 9 in the manual is correct. Are you sure
> you plugged the header in with the correct orientation?
>
> All jumpers are on JPL/JPC except 5 which is on JPC/JPL.
>
> Let me know how things work out.
>
> Ron
>
> Dorothy Jones, KA5DWR wrote:
> >
> > >Date: Sun, 8 Jun 1997 07:43:37 -0500 (CDT)

> > >Reply-to: bill.mcnish@hdtinfo.com
> > >To: ka5dwr@tapr.org
> > >From: bill.mcnish@hdtinfo.com
> > >Subject: (Form) Comments from your Home Page from
> > >
> > >Name: Bil G McNish
> > >Callsign: WD8OHA
> > >Email: bill.mcnish@hdtinfo.com
> > >
> > >Address: P. O. Box 257
> > >   5173 Hoffman St
> > >City: Elkton, Mi. 48731 USA
> > >
> > >
> > >---Comments--
> > >I obtained the Mic-E at Dayton and at the same time joined TAPR..
> > >
> > >Anyway I have the Kenwood TM-642A transciever, and apparently
instruction
> > >
> > >on page 9 is incorrect for this unit.
> > >
> > >Also could you tell me the default settings for the jumpers
jpr/jpc/jpl
> > >
> > >are...
> > >
> > >The TM-642A uses the RJ-45 mike connector.
> > >
>
> --
> Ron W5RKN
>
> also:
> rparsons@bga.com
>
>
> ------------------------------
>
> Date: Mon, 9 Jun 1997 10:28:47 -0400 (EDT)
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: mic-e@tapr.org
> Subject: Re: MIC-E digest 151
> Message-ID: <Pine.SOL.3.96.970609102644.1802h-100000@arctic>
>
> On Sun, 8 Jun 1997, Stephen J Werner wrote:
>
> > HI, the fix for your problem is to remove R26 from the VCC. This was my
> > problem using a FT2400. Remove the leg of R26 toward the faceplate
jumper
> > it to pin 16 of the personality connecter (the mic power). Steve, NP3C
>
> APRSdos REPLY/COMMENT: This is the correct mod. My previous message
> commented about removing R26 as being the wrong thing to do. But I had
> missread his message and didnt see that he DID say to then re-connect it
> to pin 16 of the personalilty header. This is the correct mod...
>
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
> ------------------------------
>
> Date: Mon, 9 Jun 1997 13:15:40 -0500
> From: Robert Winingham <kc5ejk@onramp.net>
> To: mic-e@tapr.org
> Subject: Garmin-20 GPS placement
> Message-ID: <v03102800afc1e9031a2f@[206.50.200.106]>
>
> Which way are people orenting the Garmin-20 GPS
> on the production Mic-e.
>
> Each way I tried has a resistor under the antenna socket.
> R16 and a small soder pad are just under my
> antenna connection so moving the R-16 to other side

> may not help.
>
> Placing Antenna socket up doesn't have clearance
> when I use my modified plug which needs a 5/8 inch
> standoff
>
> I am guessing the perfered position is
> with data cable exiting towards the front of the PCB,
> near the path and message switches, but which
> side up ??
>
> I am not using a right angle plug and I also wonder what is the
> standoff height needed when using the rightangle type of connector.
>
> PS
>
> Greg, the Mic-E docs look real nice, Thanks for letting me
> be part of the group.
>
> 73
>
>
>
>
>
> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---
>
>
>
> ------------------------------
>
> End of MIC-E Digest 152
> ************************

28. [MIC-E:1246] Mic-e to Yaesu FT-2500

From: Ed <edrohner@internetwork.net>
Date: Mon, 16 Jun 1997 10:45:04 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33A56D50.DB1@internetwork.net>
Rendered body type: text/plain

I gave up trying to interface an Icom IC-2AT to the mic-e. So now I am
trying to wire an FT-2500 to the mic-e. I tried the obvious with the
2500 and it won't key with the mic-e. So below are the pinouts. Has
anyone interfaced the 2500 to the mic-e. If so PLEASE let me know
SPECIFICALLY how you did it. Available pinouts are as follows:

FT-2500 Pin	Mic-e Pin
2 Rx Audio	16 Mic pwr
3 PTT(Tx)	15 Radio PTT/Gnd
4 Tx Audio	14 Microphone PTT
5 Gnd (Audio signal return)	13 Receiver audio
6 +5v	12 Microphone Audio
	11 Microphone gnd

Also,how is jumper on JPR-to-JPC position set ?
Do any other jumpers on mic-e board need to be confgiured differently
for my particular setup.

Thanks for any help you can offer.

signed-A frustrated mic-e owner :

Ed
edrohner@internetwork.net

29. [MIC-E:1247] MIC-E Header wiring for ICOM W32A HT

From: Dan Welch <amersci@flash.net>
Date: Tue, 17 Jun 1997 14:37:45 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970617123317.00949ea0@pop.flash.net>
Rendered body type: text/plain

Has anyone worked out the header wiring to interface with
an ICOM W32A HT?

The W32A uses a PTT switch in series with the mike audio
and it is not clear to me as to the required jumper wiring.

Brief mention of the series PTT switch is made in the discussion
of jumper JP9 but I haven't found any explanation as to how
to configure the header in this case.

73,

Dan Welch - KF6IZO
amersci@flash.net

30. [MIC-E:1248] Re: MIC-E Header wiring for ICOM W32A HT

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 17 Jun 1997 15:17:01 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33A6EED6.4F7C@amsat.org>
Rendered body type: text/plain

I interfaced my Icom IC-W21AT to the MIC-E by connecting Microphone
Audio
(Mic-E DIP header 12) to the tip of the external mic connector on the
IC-W21AT (stereo sub-mini phone plug) and Microphone PTT (Mic-E DIP
header 14)
through a 2.2k resistor to the tip also. Ran Speaker Output from the
IC-W21AT (stereo mini phone plug tip) to Receiver Audio (Mic-E DIP
header 13).
Ran grounds appropriately.

The W32A may be similar.

This may work with other talkies that share PTT and Mic.

Ron

Dan Welch wrote:
>
> Has anyone worked out the header wiring to interface with
> an ICOM W32A HT?
>
> The W32A uses a PTT switch in series with the mike audio
> and it is not clear to me as to the required jumper wiring.
>
> Brief mention of the series PTT switch is made in the discussion
> of jumper JP9 but I haven't found any explanation as to how
> to configure the header in this case.
>
> 73,
>
> Dan Welch - KF6IZO
> amersci@flash.net

--
Ron W5RKN

also:
rparsons@bga.com

31. [MIC-E:1249] Re: MIC-E Header wiring for ICOM W32A HT

From: William Nolle <wa8inz@mindspring.com>
Date: Tue, 17 Jun 1997 15:49:52 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33A6F7C1.126A@mindspring.com>
Rendered body type: multipart/mixed

[No readable text body. See the preserved original monthly archive.]
[Inline non-text content: multipart/mixed; 626 bytes]

32. [MIC-E:1250] mic-e/Meridian

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Tue, 17 Jun 1997 16:15:05 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33A6FC5D.7F77@uakron.edu>
Rendered body type: text/plain

Has anyone had success interfacing a Mic-e to a Magellan Meridian XL?

I have a good lock on the sats, and my base decodes the packets OK, but
the destination field is all P's and 0's and the PWR/FIX light is

always yellow.

A scope on the ring of the plug that goes into P1 shows 5V data.

I'm using 4800 baud out on the XL.

Any suggestions? - Mel W8MV

33. [MIC-E:1251] Re: MIC-E Header wiring for ICOM W32A HT

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Tue, 17 Jun 1997 21:10:21 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706180208.CAA137290@out2.ibm.net>
Rendered body type: text/plain

>I interfaced my Icom IC-W21AT to the MIC-E by connecting Microphone
>Audio
>(Mic-E DIP header 12) to the tip of the external mic connector on the
>IC-W21AT (stereo sub-mini phone plug) and Microphone PTT (Mic-E DIP
>header 14)
>through a 2.2k resistor to the tip also. Ran Speaker Output from the
>IC-W21AT (stereo mini phone plug tip) to Receiver Audio (Mic-E DIP
>header 13).
>Ran grounds appropriately.

Please confirm - this *only* works to make the HT into a tracker and does
not provide the Mic-E function. Correct? If not, then I'm missing something.

73.
Tony Drumm
ARS AA0SM - Rochester, MN

34. [MIC-E:1253] Re: Tripmate & Mic-e

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Tue, 17 Jun 1997 22:42:16 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706180335.UAA15064@netcom22.netcom.com>
Rendered body type: text/plain

I just got my Mic-E and have a Tripmate that I'd like to use with it.
The question is, since I plan to power the Mic-E through the power
jack and internal regulator, can I connect the Tripmate to JP-3 and
power the Tripmate with 5V from the Mic-E regulator?
73, doug

35. [MIC-E:1254] Re: MIC-E Header wiring for ICOM W32A HT

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Wed, 18 Jun 1997 21:13:41 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706190205.CAA171064@out1.ibm.net>
Rendered body type: text/plain

Thanks. It seems that the Mic-E function should be doable, but quite a bit
more work. Has anyone thought about this - would be very useful with an HT.
We could have used it for our marathon a few weeks ago. As it is, I used
this tracker setup - requiring our bicyclist to carry two radios. And, we
had some sort of problem that caused the tracker to quit working. May have
been power related.

>Yes, should have said this is a tracker interface.
>
>Ron
>
>
>Tony Drumm wrote:
>>
>> Please confirm - this *only* works to make the HT into a tracker and does
>> not provide the Mic-E function. Correct? If not, then I'm missing
something.
>>
Tony Drumm
ARS AA0SM - Rochester, MN

36. [MIC-E:1255] Mic-E Modification

From: Greg Noneman <greg@clubnet.net> (by way of Greg Jones, WD5IVD)
Date: Wed, 18 Jun 1997 22:03:48 -0500 (CDT)
To: mic-e@tapr.org

Message-ID: <v0302091aafce51e1fd03@[208.134.134.40]>
Rendered body type: text/plain

Greg Noneman
WB6ZSU

Mic-E Users,

The modification previously mentioned for eliminating the constant keying of the attached transceiver when power is removed from the Mic-E is actually only a partial solution. The source of the problem is that when the Mic-E is powered-off, a dc path for the Radio PTT signal to ground is presented through D3 of the Mic-E. Two actual paths to ground exist: (1) through R26 and (2) through the (internal) input protection diodes of U6. The dc resistance of either of these paths to ground is sufficient to key up many radios.

The modification whereby the high end of R26 is connected to the radio supply rather than Vcc of the Mic-E removes only one of the paths. In some cases it was mentioned that the value of R26 also had to be reduced to keep the transmitter from keying. The reason being, a sufficiently high current had to flow through R26 top overcome the current flow through the U6 diodes to ground. Effectively a voltage divider is formed and the voltage at the cathode end of D3 had to be sufficiently high to keep the transmitter from keying.

Applying radio supply voltage to R26 presents another potential problem. Since current can flow through R26 and into the input of U6, the radio can actually begin to unintentionally power the Mic-E through U6. This can be demonstrated by sufficiently reducing the value of R26 and noticing that the LEDs on the Mic-E start faintly glowing.

To completely solve the problem, both "sneak" current paths must be eliminated. To accomplish this, a small modification needs to be made to the printed circuit board of the Mic-E. A circuit trace must be cut on the back side of the Mic-E PCB and a blocking diode must be installed. In particular, the trace between the cathode end of D3 and R26 must be cut. Across the cut trace, install a small switching diode (1N34 will work) between the nodes with the anode side of the diode connected to R26 and the cathode side connected to the cathode of D3. R26 may remain as originally built (connected to Mic-E Vcc) and does not require a value change.

This modification will provide the required isolation of the Mic-E circuitry from the transceiver PTT line when the Mic-E is switched-off

37. [MIC-E:1256] Mic-E Audio levels.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Jun 1997 10:45:45 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970620111645.15040A-100000@arctic>
Rendered body type: text/plain

I noticed that I have my TX audio pot all the way down AND the jumper J3 in the 62K position and still may audio is a full 4 KHz deviation. I would like to be able to turn it down even more for voice channels (and to be sure I am below Mic circuit clipping). So I paralleled a 1K resistor across the POT to add an additional 6 dB. Its about right, but If I did it again, I might try a 560 ohm resistor to give me even more tweaking range.

I need to know everyone elses experience before recommending an engineering change to the next production. This is hard to quantify because the lowest level attainable is dependent on the residual resistance at the bottom of the TX ADUIO pot which I am sure is not consistent among boards and will certainly not be consistent across production runs.

I propose cutting the audio level adjustment range by 10 dB or more. I need to know:

IS ANYONE RUNNING WITH THE POT ANYWHERE close to half way up or higher? AND if so, are you sure you are not overdriving your Mic clipper?

If not, then I would suggest that R3 be changed from 330 to 1K, and C8 be changed to .05

See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html

See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

38. [MIC-E:1258] Re: mic-e archives???

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 20 Jun 1997 14:51:49 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020957afd08f75e12b@[208.134.134.40]>
Rendered body type: text/plain

Something isn't working. I'll have to look into to it tonight.

Greg

>I can't locate the mic-e list archives. Can someone give me a hint?
>I'd rather not rehash the same old stuff, if some topics have been
>dicussed to death.
>73, doug

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

39. [MIC-E:1259] Message Switch

From: rbost@itexas.net (Roy Bost)
Date: Sun, 22 Jun 1997 11:40:10 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970622163315364.AAA173@rbost.itexas.net>
Rendered body type: text/plain

Ok, I've got the Mic-E working and in the van! The ffunction of the Path
Switch is pretty straight forward...but how does the Message Switch
work/effect things? The charts in the MicEncoder Manual are confusing (to
me anyway) at best. Most of the doc files that are available I can't read
as I don't seem to have whatever program it takes to read them.

I have the unproto path set to:
        relay,widi,wide,relay,wide,gate,wide
I have the Path Sw set to Omni/2 and the Msg Sw set to digi/1
This seems to give a path of relay,wide.

Can anyone work up an understandable grid of settings that shows the
results of the settings???

Thanks

Roy W Bost, N5TAM
Granbury, Tx.
e-mail: rbost@itexas.net
This message transmitted on 100% recycled electrons

40. [MIC-E:1260] Re: Message Switch

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sun, 22 Jun 1997 13:11:11 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33AD691D.2245@amsat.org>
Rendered body type: text/plain

I assume you are referring to the chart on p. 12.

With the Path sw. set to 2, the chart shows RELAY,WIDE, the first two
entried in the U path. These are the same first two as you have. So you
also get RELAY,WIDE.

Set your U to the same in the manual and play with them and the chart.

You will find the PDF readers in ftp://ftp.tapr.org/tapr/utils/

Ron

Roy Bost wrote:
>
> Ok, I've got the Mic-E working and in the van! The ffunction of the Path
> Switch is pretty straight forward...but how does the Message Switch

> work/effect things? The charts in the MicEncoder Manual are confusing (to
> me anyway) at best. Most of the doc files that are available I can't read
> as I don't seem to have whatever program it takes to read them.
>
> I have the unproto path set to:
>   relay,widi,wide,relay,wide,gate,wide
> I have the Path Sw set to Omni/2 and the Msg Sw set to digi/1
> This seems to give a path of relay,wide.
>
> Can anyone work up an understandable grid of settings that shows the
> results of the settings???
>
> Thanks
>
> Roy W Bost, N5TAM
> Granbury, Tx.
> e-mail: rbost@itexas.net
> This message transmitted on 100% recycled electrons

--
Ron W5RKN

also:
rparsons@bga.com

41. [MIC-E:1261] Help!

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Sun, 22 Jun 1997 14:05:31 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199706221900.PAA24522@arthur.INS.CWRU.Edu>
Rendered body type: text/plain

I would greatly appreciate some help. I finished my MIC-E and
it seemed to be working OK, so I added in my GP-20 and accidentally
shorted the power feed to the GPS (pins 4 and 5), boy that connector
is tough on these old eyes. I obviously smoked something because now
(with the GPS removed) the MIC-E is drawing way too much current, 400ma
at 5v. The LEDs light (dimly), except for the red cycle on the ptt/rcv.
Does
anyone have any thoughts, hints, etc. to try to track this down and fix it,
or
is it gone forever?   Hate to use my new father's day present as a
paperweight!
Thanks

Joe Carter
jbc5@po.cwru.edu
W9JC
W9JC@WA8BXN.NEOH

42. [MIC-E:1262] Power Problem

From: "Steven R. Bible" <srbible@gate.net>
Date: Wed, 25 Jun 1997 17:58:43 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970624201328.008437b0@pop.gate.net>
Rendered body type: text/plain

I've run into a power problem with my MIC-E. Here are the details.

I assembled my MIC-E per the instructions and did the preliminary testing
without a internal GPS installed. Once I installed a Garmin GPS-20, the
MIC-E would not operate per the instructions. Using a logic probe to test
some signals, I noticed right away once I connected the probe to the MIC-E
power (VCC and GND) that the probe began making noise (those familiar with
a logic probe will know what I mean -- the tones emitted from the probe
indicate high, low, or pulse condition depending on its settings). Plus
the tones where not of the correct tone. I suspect that the probe is
picking up RFI from the MIC-E. I then measured voltages with a VOM and
noticed that the DC voltage of VCC was fluctuating between 4.8 and 5.0.

I checked all the components and even replaced the Voltage Regulator with a
LM2940T-5.0 and the problem remains. So I don't think the voltage
regulator is at fault.

I hooked up an external 5V and powered the MIC-E with it and all works fine.

Any ideas what's happening here? Anyone else have this problem?

Thanks,

- Steve, N7HPR
(n7hpr@tapr.org)

43. [MIC-E:1263] Power Problem

From: "Steven R. Bible" <srbible@gate.net>
Date: Sun, 29 Jun 1997 01:03:52 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970626214946.007a8bd0@pop.gate.net>
Rendered body type: text/plain

>I've run into a power problem with my MIC-E. Here are the details.
>
>I assembled my MIC-E per the instructions and did the preliminary testing
>without a internal GPS installed. Once I installed a Garmin GPS-20, the
>MIC-E would not operate per the instructions. Using a logic probe to test
>some signals, I noticed right away once I connected the probe to the MIC-E
>power (VCC and GND) that the probe began making noise (those familiar with
>a logic probe will know what I mean -- the tones emitted from the probe
>indicate high, low, or pulse condition depending on its settings). Plus
>the tones where not of the correct tone. I suspect that the probe is
>picking up RFI from the MIC-E. I then measured voltages with a VOM and
>noticed that the DC voltage of VCC was fluctuating between 4.8 and 5.0.
>
>I checked all the components and even replaced the Voltage Regulator with a
>LM2940T-5.0 and the problem remains. So I don't think the voltage
>regulator is at fault.
>
>I hooked up an external 5V and powered the MIC-E with it and all works fine.
>
>Any ideas what's happening here? Anyone else have this problem?
>
>Thanks,
>
> - Steve, N7HPR
> (n7hpr@tapr.org)

Well, I found the problem, after replacing all the voltage regulator
components...

It turned out to be the power cube I was using. Apparently it does not
have a very good filtered output. When I tried a battery the MIC-E worked
fine. Then I tried another power cube, and it worked. I guess the lesson
here is that dirty DC the MIC-E does not like.

Thanks to those with suggestions, this was a strange problem.

- Steve, N7HPR
(n7hpr@tapr.org)

44. [MIC-E:1264] Garmin-20 Connectors

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sun, 29 Jun 1997 01:06:38 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102800afd9d80eb320@[206.50.122.61]>
Rendered body type: text/plain

I am trying to find a few more of the Connectors for HELL
to use on my Second Garmin-20 . I don't see them at the Garmin
www site (the OEM pages is not up yet) and it's not in a Mouser Catalog.

The pin spacing I think is metric (1.5 MM)
I guess we know what the Keebler elves do to earn extra money.

I also should get some Right angle antenna plugs for my
orginal Garmin-20 as all the mounting for MIC-e and TAC
will need it. I think Digi-Key has the item ??

Thanks,

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

45. [MIC-E:1265]

From: "lloyd moffitt " <lmoffitt@worldnet.att.net>
Date: Sun, 29 Jun 1997 01:08:00 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970627222943.AAA9764@lloydmof>
Rendered body type: text/plain

Has anyone used the magellan 5000 with the mice e??? I cant get the
string write or something, would appreciate any help thanks
lmoffitt@worldnet.att.net If anyone in the palm beach area call at
561-8485915

46. [MIC-E:1266] no talkie

From: "lloyd moffitt " <lmoffitt@worldnet.att.net>
Date: Sun, 29 Jun 1997 01:09:21 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970627223809.AAA25958@lloydmof>
Rendered body type: text/plain

From: lloyd moffitt <lmoffitt@worldnet.att.net>
To: mic-e@tapr.org

Date: Friday, June 27, 1997 6:31 PM

Has anyone used the magellan 5000 with the mice e??? I cant get the
string write or something, would appreciate any help thanks
lmoffitt@worldnet.att.net If anyone in the palm beach area call at
561-8485915

47. [MIC-E:1267] Mike connector

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Mon, 30 Jun 1997 12:57:15 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SV4.3.95.970630134840.4533A-100000@outland.dtcc.edu>
Rendered body type: text/plain

Has anyone had problems with the MIC-E 8 pin mike connector. I am
constructing mine now and have found the conn to be extremely poor
quality. The nut seems to big for the connector body - will not tighten
down when installed - the plastic body holding the pins is not captivated
to prevent it from pushing out when connecting a mike connector to it and
finally the plastic body melts when I tried to solder wires to the pins.

I have two MIC-E's with this problem.

Sam

****
Dr. Sam Guccione   Delaware Technical & Community College
Chair Engineering   Terry Campus
Technologies/Physics   1832 North duPont Highway
302-741-2802   Dover, DE 19901
ARS K3BY   302-741-2838 Fax
****
         Delaware Rocket Launch Technical Home Page
           http://www.dtel.terry.dtcc.edu/~rocket
****

48. [MIC-E:1268] Re: Mike connector

From: Johnlgaf@aol.com
Date: Mon, 30 Jun 1997 15:50:46 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <970630162022_1243741132@emout05.mail.aol.com>
Rendered body type: text/plain

re Sam's mike connector problem, I had the same problems with mine. By using
a mike plug inserted into the connector while soldering the wires on, I was
able to get it together without the pins being melted out of alignment.

JohnLGaf@aol.com N5XAK

49. [MIC-E:1269] Re: Mike connector

From: Greg Noneman <greg@clubnet.net>
Date: Mon, 30 Jun 1997 23:13:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <1344417463-15375221@www.clubnet.net>

Rendered body type: text/plain

I experienced the same problems with the 8 pin circular microphone
connector. I had to epoxy the plastic insert into the body of the
connector to keep it from sliding out. I also had to insert a mating mic
plug into the socket to keep the pins from moving too much in the melted
plastic while being soldered.

I think TAPR should look into finding a different supplier---Pretty
Cheezy!

Greg Noneman
WB6ZSU

July 1997

Original source file: mic-e.9707
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9707

1. [MIC-E:1272] Msg Switch

From: rbost@itexas.net (Roy Bost)
Date: Sat, 5 Jul 1997 15:13:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970705201129407.AAA148@rbost.itexas.net>
Rendered body type: text/plain

One more time.....what is the function of the Msg Switch in the SSID Mode
and in the DIGI Mode? The docs don't really say anything about the Msg
Switch. Also how do you set a directional path for the Path Switch? The
docs show the "default" definitions for the Msg Switch which implies that
they can be changed....how is this done and how do you select which message
to send. That seems to give the Msg Switch three functions...SSID Mode,
DIGI Mode and Message Mode.
 I have my MIC-E set up as a standalone tracker and it is working great.
The round mic connector that comes with the kit does need to be
replaced...I used superglue gell to keep mine together.

Roy W Bost, N5TAM
Granbury, Tx.
e-mail: rbost@itexas.net
This message transmitted on 100% recycled electrons

---

2. [MIC-E:1273] Re: Msg Switch

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sun, 6 Jul 1997 09:50:11 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.868200377.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

> One more time.....what is the function of the Msg Switch in the SSID Mode
> and in the DIGI Mode? The docs don't really say anything about the Msg
> Switch. Also how do you set a directional path for the Path Switch? The
> docs show the "default" definitions for the Msg Switch which implies that
> they can be changed....how is this done and how do you select which message
> to send. That seems to give the Msg Switch three functions...SSID Mode,
> DIGI Mode and Message Mode.

Hello Roy,

It was during the beta test and remains my personal opion that
combining the two unrelated functions of message number and DIGI/SSID
selection is a mistake. The only reason these are on the same encoder
is that it's a 4-bit encoder: high-order bit is DIGI/SSID and low
3 bits are the message number (values 0 through 7).

The message bits are transmitted in the MIC-E packets as just that: 3
bits. The intrepretation of these bits into messages like "Off Duty",
"Enroute", etc. is performed at the receiving station. As such,
conceptually you and your buddies could define your own values for
these bits. In practice you really can't if you want to interoperate
with random other APRS users. So the "default" meanings is something
of a misnomer.

Now, DIGI/SSID modes are:

DIGI -- conventional AX.25 packet style digipeater paths are used.
Packets are transmitted with an AX.25 header that is usually
represented by us humans as "APRS from N2YGK via RELAY,WIDE,WIDE".
This, for example, would be what happens if you selected any of the
seven possible message values on the "DIGI" side of the knob and had
your PATH switch set to three and you had configured the VIA list with
MIC107.EXE to RELAY,WIDE,WIDE,....

SSID -- To make the packets shorter, it is assumed there exists a
special case APRS digipeater which lets the transmitting MIC-E encode
the VIA path with just a few bits. These get stuffed into the
otherwise unused destination station's SSID. So, the above example
would instead be sent as" "APRS-3 from N2YGK" eliminating 21 bytes
from the packet header (3 digipeater callsigns). [By the way, I am
not sure -3 is the correct SSID -- just as an example. See the
protocol chapter in the docs.] These 21 saved bytes translate into about
17.5 msec less air time for the packet "noise."

The SSID mode is meant primarily for use with voice repeaters that are
equipped with an APRS digipeater where you really want to minimize the
duration of packet bursts on the tail of voice transmissions to
something that doesn't drive the other voice users nuts. Short
packets plus muting the packet audio combined should do the job.

For a lengthy description of the features of an APRS DIGI, see the
files MIC-E.TXT and VOX-APRS.TXT in the APRSdos README directory.
For a half-baked prototype implementation of an APRS DIGI which runs
under Linux *only*, see

   ftp://ftp.tapr.org/SIG/aprssig/files/linux/aprsmon.zip
   http://www.cloud9.net/~alan/ham/aprs/

Hope this helps.

73 de Alan N2YGK
PS: I don't recall off the top of my head but believe directional paths are
only implemented in the aprs digi (e.g. not a feature of the MIC-E which I
believe only has the omni path).

3. [MIC-E:1276] Misc Problems

From: "Joseph B. Carter" <jbc5@po.cwru.edu>
Date: Mon, 7 Jul 1997 08:38:18 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199707071332.JAA24164@celeste.INS.CWRU.Edu>
Rendered body type: text/plain

My Mic-E is up and running, GPS-20 working well too. I am however, having a
couple
of problems. First of all I can not find the old Mic-e reflector items to
review, the directory
at the tapr Mic-E site, mail archives, is empty. Secondly the Mic-E works
great with good
levels, even with J3 on 62K and tx pot all the way up, it is still a bit
"hot". The problem is
that whenever I plug in my microphones to the Mic-e, both the packet burst
and mic audio
are extremely degraded, neither is intelligible, and yes the Mic seems to
stay on line
when the Mic-E triggers the ptt. I did do the mod of inserting a diode
between R26 and D3
as was recommended on the reflector to prevent ptt lockdown. In addition,
I am having trouble
with the rx audio input. It works fine using audio from the speaker jack
and rcv audio jack.
When I try to use the audio from the mic plug it acts more like a latching
switch. When I
adjust the level to just trigger the rcv light the light stays on even
after removing the audio
signal. Is anyone else experiencing these problems? Thanks for the help.
Joe Carter
W9JC
jbc5@po.cwru.edu
w9jc@wa8bxn.neoh.usa

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From: "Joseph B. Carter" <jbc5@po.cwru.edu>
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signal. Is anyone else experiencing these problems? Thanks for the help.
Joe Carter
W9JC
jbc5@po.cwru.edu
w9jc@wa8bxn.neoh.usa

5. [MIC-E:1277] Re: Misc Problems

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Mon, 7 Jul 1997 10:57:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199707071554.IAA16117@netcom6.netcom.com>
Rendered body type: text/plain

I'm having the same problems. I'm also told there's alternator whine
when powering the Mic-E directly from the truck. The radio is a
TM-742, and I haven't done the diode mod yet.
73, doug

> Date: Mon, 7 Jul 1997 08:38:18 -0500 (CDT)
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Joe Carter
W9JC
jbc5@po.cwru.edu
w9jc@wa8bxn.neoh.usa

7. [MIC-E:1278] Re: Misc Problems

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 7 Jul 1997 13:13:44 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020916afe6de1247e8@[208.134.134.40]>
Rendered body type: text/plain

>First of all I can not find the old Mic-e reflector items to
>review, the directory
>at the tapr Mic-E site, mail archives, is empty.

I worked on this problem about two weeks ago, but have now discovered that
the list messages are not being saved like they are suppose to.

I have placed the mail archices as I haved saved it to my local disk in the
mail_archives area. It has all the meaningful messages.

Lee and myself are working on why the messages are not being archived
correctly.

Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

8. [MIC-E:1278] Re: Misc Problems

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
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Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

9. [MIC-E:1279] Re: Misc Problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 7 Jul 1997 23:30:55 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970708002247.14251J-100000@arctic>
Rendered body type: text/plain

SOunds like you have ground loop problems and lots of garbage on the
audio. Try running everything from a 9 volt battery and see if it cleans
up...

 On Mon, 7 Jul 1997, Joseph B. Carter wrote:

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> Joe Carter
> W9JC
> jbc5@po.cwru.edu
> w9jc@wa8bxn.neoh.usa
>
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

10. [MIC-E:1279] Re: Misc Problems

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Date: Mon, 7 Jul 1997 23:30:55 -0500 (CDT)
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See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

11. [MIC-E:1280] mic-e ptt monitor

From: John Dalin <ka0myg@sparc.isl.net>
Date: Tue, 8 Jul 1997 21:46:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33C3155C.3E38@sparc.isl.net>
Rendered body type: text/plain

Doug wrote:

>Perhaps a suggestion for a future revision of the Mic-E/MIM?

>If one of the analog channels, now used for telemetry, could be
>configured to detect the PTT from the various HT speaker mikes, then
>hacking one up wouldn't be necessary.
>I suspect this could be done with an op-amp as a comparator, too.

>73, doug

>(who always feels as if he's volunteering when he makes suggestions
>like this)

I think Doug is right on and we should volunteer him to design the mod.
(Kidding, Doug ;-}). Seriously though, this exact thought crossed my
mind recently. I believe the PTT function is a DC level change and it
would be nice if the PIC would have settings for one of the analog inputs
such as PTT control enable, Key voltage, Unkey voltage. A table could be
put on the SIG relating each A/D value to a rough DC value. As I recall
the resistor value used accross the TX audio pair was about 2k. Therefore
an input resistance to the A/D of 20k shouldn't have any impact. How
'bout it chief? PIC upgrade? Thanks for the bandwidth. John.

12. [MIC-E:1280] mic-e ptt monitor

From: John Dalin <ka0myg@sparc.isl.net>
Date: Tue, 8 Jul 1997 21:46:24 -0500 (CDT)
To: mic-e@tapr.org
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an input resistance to the A/D of 20k shouldn't have any impact. How
'bout it chief? PIC upgrade? Thanks for the bandwidth. John.

13. [MIC-E:1281] Mic-E frq to APRS freq

From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Date: Thu, 10 Jul 1997 15:07:13 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199707102005.NAA16759@netcom3.netcom.com>
Rendered body type: text/plain

There's still no archive of the Mic-E group that I can see from the TAPR
web page, so forgive me if this question has been answered hundreds of
time.

Until we can get Mic-E support on our favorite repeater, and even
after that, if we're using simplex for special event support, it seems
desireable to have a receiver listening on the Mic-E/voice frequency,
and digipeating on the APRS frequency (probably NOT the standard
one), so stations running APRS can track the Mic-E's, without
assaulting the ears of the voice users.

So, it takes two receivers, and one transmitter; does it require two
TNCs or can it be done with just one? Can I just combine audio from the
two and feed it into one TNC? If I should or must use two TNC's, how
are they connected together? Or what?

73, doug

14. [MIC-E:1282] Re: MIC-E digest 173

From: Dan Welch <amersci@flash.net>
Date: Thu, 10 Jul 1997 20:04:57 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970710180318.00938cc0@pop.flash.net>
Rendered body type: text/plain

FYI,
    I have devised a method of connecting the MIC-E to
   ICOM & other hand helds which use a PTT switch in series with the
Microphone.

The fix is relatively low cost and consists of re-wiring an
inexpensive Radio Shack speaker-Microphone so as to bring the PTT switch
out on separate wires. I then added a 5V 250 ohm reed relay, Mounted on the
header plug to provide the
series DC path required by the HT. Works like a dream and
is un-pluggable so that you can configure the MIC-E for other radios by
simply unplugging the header and plugging
in the header for the other radio.

I supplied a write-up to several people which, unfortunately had a wiring
error. I have since corrected the document.
In addition I have an Auto Cad schematic but have not been able to convert
it to a GIF that is readable as far as the text portions go.

If enough people are interested, can post the write-up to the list.
Anyone who can use the Auto Cad drawing can
EMAIL me directly & I will try & EMAIL them to you.

File sizes are: Written Document = 6.2k, Auto Cad = 102K.

73,

Dan Welch - KF6IZO
amersci@flash.net

15. [MIC-E:1285] Mic-E & Garmin GPS-45XL, and assorted glitches

From: Larry Mollica <larry@soma.net>
Date: Wed, 16 Jul 1997 09:15:35 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <l03110700aff286d02c4a@[181.100.100.101]>
Rendered body type: text/plain

Okay, I've got three questions (so far). I'm new to the mailing list , so
if this has been covered already, well, please point me to where I can
retrieve what's gone before...

Question one:
Does anyone have any experience interfacing a Garmin GPS-45XL (or
equivalent) directly to the Mic-e? I had initially assumed that it would
work like the GPS-20, so I could run it in the "NEMA-TTL", with perhaps
level conversion if needed.

So far, I don't get any reaction from the "FIX" LED (D16 green) while the
45XL is sending data. It stays yellow, and there is no change on PIC pin
17. I've tried every NEMA output setting on the 45XL with the same result.
I don't have anything at the moment to monitor what data is actually being
transmitted by the Mic-e, so I'm relying on the FIX LED being a valid
indication.

The data out on the GPS-45XL appears to be mark/idle=ground, space=+Vcc.
I notice that the data going in NEMA-TTL appears to get inverted in passing
through U4 ADM232, such that when the NEMA-TTL (GPS-45XL output) is at
idle/ground, TX1 is sitting positive (space?). Since that connects to the
same point (RX1) an external GPS RS-232 would feed into, that seems like
an odd state. I'm wondering then if the output of the GPS-45XL is perhaps
inverted with respect with what comes out of the GPS-20?

Question two:
Meanwhile, while the FIX LED doesn't change, LED D8 (Message switch)
sometimes flickers red when data is coming in from the GPS-45XL. Traced
back to RA1 coming out of U2 (PIC pin 3), this lead only pulls up to about
+3 volts when SW2(MSG) pin 8 is open. Pull-up R27 is good. Spikes show up
on this lead when GPS data is coming in, and there are other negative
spikes here pretty much all the time, as well.
Is this anything to worry about?

Question three:
VR1 (Period) seems to have a range in it's travel where the transmit "goes
crazy", sending in short, irregularly spaced intervals. This corresponds to
about +0.2 volts on the wiper. Above (or below) that value, it gets stable
again. The timers are all at default value, so we _should_ be talking like
1x60x4 (I believe); or four minutes on Auto. But when it hits the magic
pot spot it will sometimes send continuously, one right after another, a
couple of seconds between transmissions (or less).
Do they all do this? If so, I'm tempted to lift the ground side of the pot,
and stick a resistor in series, to make this go away.

Thanks
Larry Mollica
Orange, CA
WA6FSJ

16. [MIC-E:1286] Re: Mic-E & Garmin GPS-45XL, and assorted glitches

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 16 Jul 1997 18:33:51 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33CD5754.68E9FCAC@amsat.org>
Rendered body type: text/plain

I'll give it a try.

Larry Mollica wrote:
>
..
> Question one:
> Does anyone have any experience interfacing a Garmin GPS-45XL (or
> equivalent) directly to the Mic-e? I had initially assumed that it would
> work like the GPS-20, so I could run it in the "NEMA-TTL", with perhaps
> level conversion if needed.

By the way, it's NMEA, not NEMA (different organizations). You should need no
external level conversions using the NMEA-TTL input as long as the GPS is set
to provide this output.

> So far, I don't get any reaction from the "FIX" LED (D16 green) while the
> 45XL is sending data. It stays yellow, and there is no change on PIC pin
> 17. I've tried every NEMA output setting on the 45XL with the same result.
> I don't have anything at the moment to monitor what data is actually being
> transmitted by the Mic-e, so I'm relying on the FIX LED being a valid
> indication.

The FIX LED should initially light red, then when no GPS is attached or no
fix, the LED should be steady yellow. When a fix is attained, the LED should
blink red about once a second. The initial printing of the manual was
incorrect here. Do you have a way to confirm a fix (or not). Using the GPS 45 display?

..
>
> Question two:
> Meanwhile, while the FIX LED doesn't change, LED D8 (Message switch)
> sometimes flickers red when data is coming in from the GPS-45XL. Traced
> back to RA1 coming out of U2 (PIC pin 3), this lead only pulls up to about
> +3 volts when SW2(MSG) pin 8 is open. Pull-up R27 is good. Spikes show up
> on this lead when GPS data is coming in, and there are other negative
> spikes here pretty much all the time, as well.
> Is this anything to worry about?

How are you powering the Mic-E. Are you sure the supply is good?

> Question three:
> VR1 (Period) seems to have a range in it's travel where the transmit "goes
> crazy", sending in short, irregularly spaced intervals. This corresponds to
> about +0.2 volts on the wiper. Above (or below) that value, it gets stable
> again. The timers are all at default value, so we _should_ be talking like
> 1x60x4 (I believe); or four minutes on Auto. But when it hits the magic
> pot spot it will sometimes send continuously, one right after another, a
> couple of seconds between transmissions (or less).
> Do they all do this? If so, I'm tempted to lift the ground side of the pot,
> and stick a resistor in series, to make this go away.

I've seen my Mic-E "go crazy" when the supply voltage was too low. What
options have you set for the various jumpers. What supply voltage?

> Thanks
> Larry Mollica
> Orange, CA
> WA6FSJ

--
Ron W5RKN

also:
rparsons@bga.com

17. [MIC-E:1287] Mic-E Manual - Yaesu Mic Connection

From: James Keck <jkeck@smartlink.net>
Date: Thu, 17 Jul 1997 19:04:40 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.32.19970717165028.006af05c@smartlink.net>
Rendered body type: text/plain

Hi,

     While wiring up the Mic-E, I noticed the following;

    "On page 9, Yaesu 8-pin wiring to Mic-E Function Header Block
 shows Pin 6 connected to both Pin 14 and 11."

    Evidently a Typo, but I was not able to find the answer in
 my manual for the Yaesu Radio that I plan to use it with.

    If anyone has the correct pinout for a Yaesu Mic, please let me
 know.

      Thanks,

       Jim, N6HNY

18. [MIC-E:1288] Re: Mic-E & Garmin GPS-45XL, and assorted glitches

From: Larry Mollica <whizzo@soma.net>
Date: Fri, 18 Jul 1997 02:03:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <l03110700aff4b7c4efa7@[181.100.100.101]>
Rendered body type: text/plain

First off, thanks for the effort Ron. All is appreciated.
I've solved problem #1, but it's made my #3 problem much worse, it's now a killer. Please see "NEW info" on question #3 below, if you would, and tell me if you agree with my conclusion.

>Larry Mollica wrote:
>> Question one:
>> Does anyone have any experience interfacing a Garmin GPS-45XL (or
>> equivalent) directly to the Mic-e? I had initially assumed that it would
>> work like the GPS-20, so I could run it in the "NEMA-TTL", with perhaps
>> level conversion if needed.

Ronald G. Parsons writes:
>By the way, it's NMEA, not NEMA (different organizations).

Sorry. Dyslexic get I sometimes.

Anyway, problem one solved; looks like I guessed right, the 0/+ data out of the Garmin GPS-45XL needed to be inverted before being fed into the "NMEA-TTL" lead on the mic-e. It would seem the GPS-45 data out (+V=space) is upside down with respect to the GPS-20 data out (ground=space ?), which the mic-e was designed for.
I still don't know what "official" NMEA-TTL is supposed to be, after some surfing, I've found various info, some claiming it (NMEA spec) _does_ specify electrical characteristics, and others claiming it _does_not_. It's moot at this point, as after inverting the signal, the "FIX" light started doing it's thing as soon as the GPS45 had a fix. To be on the safe side, I'm using a 4049 to both invert, and convert the GPS45 higher data +voltage down to the mic-e +5 level.
I don't know if the mic-e RS232 chip's TTL input can live with higher than Vcc or not, but this way I don't worry about it.

>The FIX LED should initially light red, then when no GPS is attached or no
>fix, the LED should be steady yellow. When a fix is attained, the LED should
>blink red about once a second.
>The initial printing of the manual was incorrect here.

This is now working as described. I do have the corrected sheets, BTW.

>> Question two:
>> Meanwhile, while the FIX LED doesn't change, LED D8 (Message switch)
>> sometimes flickers red when data is coming in from the GPS-45XL. Traced
>> back to RA1 coming out of U2 (PIC pin 3), this lead only pulls up to about
>> +3 volts when SW2(MSG) pin 8 is open. Pull-up R27 is good. Spikes show up
>> on this lead when GPS data is coming in, and there are other negative
>> spikes here pretty much all the time, as well.
>> Is this anything to worry about?
>
>How are you powering the Mic-E. Are you sure the supply is good?

Using a Lambda regulated bench supply. It is rock solid, has no noise or ripple I can measure. If it won't work on this, it sure won't work in my car...

I'll add that I've poked around on every lead on the controller, and this is the only lead that both has these spikes, and pulls up to only a wishy-washy level.
I am strongly suspecting this controller is (slightly) bad-out-of-box; good enough to mostly work and pass a quick inspection, but bad nonetheless.
See below.

>> Question three:
>> VR1 (Period) seems to have a range in it's travel where the transmit "goes
>> crazy", sending in short, irregularly spaced intervals. This corresponds to
>> about +0.2 volts on the wiper. Above (or below) that value, it gets stable
>> again. The timers are all at default value, so we _should_ be talking like
>> 1x60x4 (I believe); or four minutes on Auto. But when it hits the magic
>> pot spot it will sometimes send continuously, one right after another, a
>> couple of seconds between transmissions (or less).

>
>I've seen my Mic-E "go crazy" when the supply voltage was too low. What
>options have you set for the various jumpers. What supply voltage?

JP1 open
JP6 open
JP13 1-2
JP14 1-2
SP1 open
Typically I'm running it around 12v into the power jack. I can vary it from
8 to 14v, with no difference I can see in mic-e performance.
The Mic-e "Vcc" point typically reads 4.99V
Below 8 volts in, the regulated +5 starts to conk out, which seems resonable.

NEW info; I've discovered that what really makes the thing "go crazy", is
when the PIC is getting GPS data in. When that happens, the "crazy zone" of
the pot wiper widens. From +0.1 to 2.0 (wiper) volts, the transmit is
close to _continuous_ streaming (still using default timer settings). Not
the sort of thing you want to put on the air...
This (combined with problem #2) REALLY makes me think the PIC is bad (or at
least has some problems with a couple of it's input lines). It sort of
works, but I don't believe it's healthy.
Would you agree?

On another note, I'm kind of shocked that the "Technical Support" document
says "There will be no technical support provided for the MicEncoder
through the TAPR office", and instead offers this mail list.
I mean, I know I didn't buy a Heathkit, but like, who's supposed to take
care of stuff like bad chips? A volunteer on a mail list?
Sorry; I'm ranting.
I guess I'll call them up tomorrow and start whining. Maybe this will be
easier than it seems. (I'm a "glass half-empty" kind of guy...)

Thanks again

Larry Mollica
Orange, CA
WA6FSJ

>Ron W5RKN
>
>also:
>rparsons@bga.com

19. [MIC-E:1289] Re: Mic-E Manual - Yaesu Mic Connection

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 18 Jul 1997 08:25:22 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33CF6EA4.5D45ABDB@amsat.org>
Rendered body type: text/plain

This is an error. Yaesu 8-pin Mic Ground should be pin 7.

James Keck wrote:
>
>   Hi,
>
>   While wiring up the Mic-E, I noticed the following;
>
>   "On page 9, Yaesu 8-pin wiring to Mic-E Function Header Block
> shows Pin 6 connected to both Pin 14 and 11."
>
>   Evidently a Typo, but I was not able to find the answer in
> my manual for the Yaesu Radio that I plan to use it with.
>
>   If anyone has the correct pinout for a Yaesu Mic, please let me
> know.
>
>   Thanks,
>
>   Jim, N6HNY

--
Ron W5RKN

also:

rparsons@bga.com

20. [MIC-E:1291] Motorola ONCORE interface board kit

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 24 Jul 1997 03:45:42 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03102800affcb845ac75@[206.50.127.181]>
Rendered body type: text/plain

The TAPR kit of the Mckinney Mororola OnCORE interface board has an
incorrect assemply step.

-ONE-
The written installation of componets page has the cap C4 (1uf)
with the + to MAX232 pin 6 and the - to ground.

This might seem like the logical way to use a CAP but the
MAX232 , I recall, has a V- on a pin.

the INTERFACE BOARD picture had it the other way around

   --- It would help if this kit had a circuit diagram ---
I am guessing the picture is correct.

Because,
looking at the diagram for the Totally Accurate Clark-2 kit
it has the C4 cap with the - end going to MAC232 pin 6 and
+ end to Ground.

-TWO-
I received two 1N5819 diodes and no 1N4001
and I guess the extra 1N5819 (1 AMP 40VPIV Schottky) is a
 replacement for the IN4001 (1 AMP 60V piv) in the
reverse voltage protection circuit.

The kit uses that LM2574 high efficient switching regulator
 0.5 amp/ 5 volts with input of 7 to 30 vdc.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

21. [MIC-E:1292] Re: Motorola ONCORE interface board kit

From: "Steven R. Bible" <srbible@gate.net>
Date: Thu, 24 Jul 1997 18:54:04 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970724195204.0082c2f0@pop.gate.net>
Rendered body type: text/plain

At 03:45 AM 7/24/97 -0500, you wrote:
>The TAPR kit of the Mckinney Mororola OnCORE interface board has an
>incorrect assemply step.
>
>-ONE-
>The written installation of componets page has the cap C4 (1uf)
>with the + to MAX232 pin 6 and the - to ground.
>
>This might seem like the logical way to use a CAP but the
>MAX232 , I recall, has a V- on a pin.
>
>the INTERFACE BOARD picture had it the other way around

The picture is correct, the assembly instructions are incorrect.

>   --- It would help if this kit had a circuit diagram ---
>I am guessing the picture is correct.

I am asking Doug if he has a schematic.

>-TWO-
>I received two 1N5819 diodes and no 1N4001
>and I guess the extra 1N5819 (1 AMP 40VPIV Schottky) is a
> replacement for the IN4001 (1 AMP 60V piv) in the
>reverse voltage protection circuit.

No, this was a mix up. You should have received a 1N4002 (a replacement
for a 1N4001). I can either send you one or you can pick one up at your
nearest radio shack. The purpose of the 1N4001 is for accidental reverse
polarity.

I hope this helps.

 - Steve, N7HPR
 (n7hpr@tapr.org)

22. [MIC-E:1293] Problems

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Sat, 26 Jul 1997 15:30:26 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DA5C53.708F@uakron.edu>
Rendered body type: text/plain

After using my mic-e for about a month, it developed the following
problems:

1. It won't let me perm MYC, VIA or MYS. It does perm the BT ok.

2. There is an oscillation behind the tones that prevents decoding.
The amplitude of the oscillation varies with the transmit pot setting.
Playing with JP-5 and J3 don't solve the problem.

The unit worked fine until yesterday. Obviously it needs some work.
Will TAPR support this?

Any suggestions on fixing the problem will be appreciated.
                Mel W8MV

23. [MIC-E:1294] Re: Problems

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sat, 26 Jul 1997 17:22:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DA7720.B489EC55@amsat.org>
Rendered body type: text/plain

Melvin C. Vye wrote:
>
> After using my mic-e for about a month, it developed the following
> problems:
>
> 1. It won't let me perm MYC, VIA or MYS. It does perm the BT ok.
>
Try doing an INIT, make sure you are in MIC mode, and re-enter the values.

--
Ron W5RKN

also:
rparsons@bga.com

24. [MIC-E:1295] Re: Problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 27 Jul 1997 10:22:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970727111741.25413J-100000@arctic>
Rendered body type: text/plain

My first suggestion is to check it on 9 volt battery power only.
Disconnect all other power sources and cables, and the GPS. This way
there aare no external sources for the noise. THen see what you hear...

 On

Sat, 26 Jul 1997, Melvin C. Vye wrote:

> After using my mic-e for about a month, it developed the following
> problems:
>
> 1. It won't let me perm MYC, VIA or MYS. It does perm the BT ok.
>
> 2. There is an oscillation behind the tones that prevents decoding.
> The amplitude of the oscillation varies with the transmit pot setting.
> Playing with JP-5 and J3 don't solve the problem.
>
> The unit worked fine until yesterday. Obviously it needs some work.
> Will TAPR support this?
>
> Any suggestions on fixing the problem will be appreciated.
>   Mel W8MV
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

25. [MIC-E:1296] Problems/Solutions

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Sun, 27 Jul 1997 13:57:01 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DB9642.73FE@uakron.edu>
Rendered body type: text/plain

Thanks to Bob Bruninga and Ron Parsons for their suggestions as to the
solution to my oscillation/no-decode problem.

I had been using a stand-alone battery pack with no other connections
to the mic-e.

Per Ron's suggestion, I did an INIT and re-entered the values. The
oscillation disappeared and now there is no problem with the decode.

I still have a problem with PERMing values. If I enter
RELAY, WIDE, WIDE
and do a reset and disp, I may get
RELAY, WID , WIDE
or something like that. In other words, it seems forgetful.

I use the mic-e on my car, boat and bicycle, so I'm always changing
MYC to W8MV-9, W8MV-8 or W8MV-4 with appropriate MYS changes.
Is the EEPROM not specked to be PERMed so often? Could I be damaging
the EEPROM with these frequent changes?

I'll leave it in the car for a while, and see what happens. Thanks-
73 - Mel W8MV

26. [MIC-E:1297] Re: Problems/Solutions

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sun, 27 Jul 1997 16:01:07 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DBB614.D63D55C0@amsat.org>
Rendered body type: text/plain

I had this problem when using a Mac PowerBook which didn't exactly like the
RS-232 signals. The values did get programmed correctly but the DISP lost some bytes.

Might try a different computer.

Ron

Melvin C. Vye wrote:
..
> I still have a problem with PERMing values. If I enter
> RELAY, WIDE, WIDE
> and do a reset and disp, I may get
> RELAY, WID , WIDE
> or something like that. In other words, it seems forgetful.

>
..
> 73 - Mel W8MV

--
Ron W5RKN

also:
rparsons@bga.com

27. [MIC-E:1298] Mic-E streaming transmit and DB-9 cable length

From: Larry Mollica <whizzo@soma.net>
Date: Sun, 27 Jul 1997 20:31:50 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <l03110700b001a337ca5f@[181.100.100.101]>
Rendered body type: text/plain

Well, here's a gotcha, for the record. I invite all to watch and learn as I take the walk of shame...

Previously I had described a situation where the MicE would rapidly spew out one transmission right after another. The streaming occurred within a certain range of the period pot, and only when the GPS was sending serial data.

After much poking around, or perhaps I should say after not enough poking around, I gave up on the thing and called TAPR. Dorothy was very helpful and arranged for me to swap boards. Well, of course the replacement board did the exact same thing.

This time I found some nasty looking spikes present on the pot wiper. (I believe I'd missed these before, as the scope sync had been sitting on "hf reject".) I tried a .1 cap to ground on this line, it smoothed the spikes and the TX got more stable. This was not any kind of correct fix, but it confirmed the spikes were involved.
There were quite a few suspicious spikes in various places. I finally noticed that some of the analog inputs had what looked like serial data on them.
Long story short; I had been simultaneously monitoring the GPS serial data on the pc, using an RS-232 breakout to open up all leads but RXD and ground. Between that and the MicE was a 6 foot DB-25-to-DB9 cable, and another DB9 male-to-male which was another 6ft at least. (Because that's what I had laying around, that's why...)
The GPS serial data was coupling to the analog input leads in the long cable. Apparently, for some reason the PIC doesn't do a swell job of isolating these inputs from other inputs, though maybe that has something to do with the coupled noise hitting over +5Vcc, and negative as well. I'm not all that familiar with these things, so I don't know. The spikes showed up in quite a few places besides the J2/DB9 analog leads.
Unplugging the long cable fixed all that, and the streaming problem went away. (Sigh...)

As if that wasn't enough, when all this was done, I haven't been able to get the "FIX" light to operate when the GPS has a fix. I had gotten this working on the first board (that's right, the one I had sent back), but now I'm back to where I started. So now I guess I'll call up and beg to get the old board back. I'll suppose I'll offer to spring for the shipping both ways.

And that's why I love ham radio; it's the chance to relax, and forget those technical problems at work.

Larry Mollica
WA6FSJ

28. [MIC-E:1299] MIC-E -- HELP! PTT Problem

From: Ron Drumheller <k3nxf@silcom.com>
Date: Sun, 27 Jul 1997 20:52:38 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199707280144.SAA04164@beach.silcom.com>
Rendered body type: text/plain

Greetings:

We have about seven mic-e units in my area and I am sort of the leader of the pack. We have them working pretty good. Have experienced a great deal of mobile noise which seems to be corrected by using a 12v gel cell instead of the auto electrical system.

I have one remaining flustrating probem. I am using a Kenwood TM-741 and a
Kenwook TM-742 transceiver. I have done the modification of R26 and a diode
as mentioned in the e-mails. I have tried various diodes and in different
combos.
No one mention which way the diode should be inserted so I have tried it
both ways. I CANNOT KEEP THE KENWOOD FROM TRANSMITTING WHEN THE POWER TO
THE MIC-E IS TURNED OFF. I have lifted the R26 resistor at the VCC side as
shown in the schematic. I then put the diode in series with it and
connected the diode to pin 16 of the personality plug. I unit works just
fine when the power is on the mic-e, but constantly causes the TM-741 to
transmit even when the power plug is removed from the mic-e unit.

Can anyone offer a suggestion or has anyone solved this probelm with a
Kenwood?

Thanks,

Ron Drumheller, K3NXF
471 Calor Drive
Buellton, CA 93427

E-mail to: k3nxf@silcom.com

29. [MIC-E:1300] Re: MIC-E -- HELP! PTT Problem

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 28 Jul 1997 07:42:02 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DC936C.4BAE8F64@amsat.org>
Rendered body type: text/plain

The new diode goes between the junction of Q4-collector and D3, and the
junction of the pullup on U6-13 and U6-13. The cathode goes toward Q4.

Ron

Ron Drumheller wrote:
> Greetings:
> We have about seven mic-e units in my area and I am sort of the leader
> of
> the pack. We have them working pretty good. Have experienced a great
> deal
> of mobile noise which seems to be corrected by using a 12v gel cell
> instead
> of the auto electrical system.
> I have one remaining flustrating probem. I am using a Kenwood TM-741
> and a
> Kenwook TM-742 transceiver. I have done the modification of R26 and a
> diode
> as mentioned in the e-mails. I have tried various diodes and in
> different
> combos.
> No one mention which way the diode should be inserted so I have tried
> it
> both ways. I CANNOT KEEP THE KENWOOD FROM TRANSMITTING WHEN THE POWER
> TO
> THE MIC-E IS TURNED OFF. I have lifted the R26 resistor at the VCC
> side as
> shown in the schematic. I then put the diode in series with it and
> connected the diode to pin 16 of the personality plug. I unit works
> just
> fine when the power is on the mic-e, but constantly causes the TM-741
> to
> transmit even when the power plug is removed from the mic-e unit.
> Can anyone offer a suggestion or has anyone solved this probelm with a
> Kenwood?
> Thanks,
> Ron Drumheller, K3NXF
> 471 Calor Drive
> Buellton, CA 93427
> E-mail to: k3nxf@silcom.com

--
Ron W5RKN

also:
rparsons@bga.com

30. [MIC-E:1301] Re: MIC-E -- HELP! PTT Problem

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 28 Jul 1997 07:50:01 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DC93C7.A649D220@amsat.org>
Rendered body type: text/plain

I meant to say that this diode works with my Kenwood 742.
--
Ron W5RKN

also:
rparsons@bga.com

31. [MIC-E:1302] Re: Problems/Solutions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Jul 1997 08:39:28 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970728093227.16726A-100000@arctic>
Rendered body type: text/plain

On Sun, 27 Jul 1997, Melvin C. Vye wrote:

> I use the mic-e on my car, boat and bicycle, so I'm always changing
> MYC to W8MV-9, W8MV-8 or W8MV-4 with appropriate MYS changes.

APRSdos REPLY/COMMENT: There is no need to change the SSID, since it
means nothing on a Mic-E. But I think you know that already since you did
mention changing the MYSymbol too..

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

32. [MIC-E:1303] Re: MIC-E -- HELP! PTT Problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Jul 1997 09:20:28 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970728100938.16726M-100000@arctic>
Rendered body type: text/plain

The R26 is to pull up the input on pin 13 to U6F. The diode needs to
isolate this input and R26 combination from the rest of the
circuit which is Q4 collector and D3. Connect the anode of the diode to
Q4 and the cathode to the R26 and pin 13 combo.

 On Sun, 27 Jul 1997, Ron Drumheller wrote:

> Greetings:
>
> We have about seven mic-e units in my area and I am sort of the leader of
> the pack. We have them working pretty good. Have experienced a great deal
> of mobile noise which seems to be corrected by using a 12v gel cell instead
> of the auto electrical system.
>
> I have one remaining flustrating probem. I am using a Kenwood TM-741 and a
> Kenwook TM-742 transceiver. I have done the modification of R26 and a diode
> as mentioned in the e-mails. I have tried various diodes and in different
> combos.
> No one mention which way the diode should be inserted so I have tried it
> both ways. I CANNOT KEEP THE KENWOOD FROM TRANSMITTING WHEN THE POWER TO
> THE MIC-E IS TURNED OFF. I have lifted the R26 resistor at the VCC side as
> shown in the schematic. I then put the diode in series with it and
> connected the diode to pin 16 of the personality plug. I unit works just
> fine when the power is on the mic-e, but constantly causes the TM-741 to
> transmit even when the power plug is removed from the mic-e unit.
>
> Can anyone offer a suggestion or has anyone solved this probelm with a
> Kenwood?
>

> Thanks,
>
> Ron Drumheller, K3NXF
> 471 Calor Drive
> Buellton, CA 93427
>
> E-mail to: k3nxf@silcom.com
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

33. [MIC-E:1304] Re: MIC-E -- HELP! PTT Problem

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Jul 1997 09:34:56 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970728103126.16726T-100000@arctic>
Rendered body type: text/plain

On Mon, 28 Jul 1997, Bob Bruninga wrote:

> The R26 is to pull up the input on pin 13 to U6F. The diode needs to
> isolate this input and R26 combination from the rest of the
> circuit which is Q4 collector and D3. Connect the anode of the diode to
> Q4 and the cathode to the R26 and pin 13 combo.

*** WRONG. I meant the other way around...

>
> On Sun, 27 Jul 1997, Ron Drumheller wrote:
>
> > Greetings:
> >
> > We have about seven mic-e units in my area and I am sort of the leader of
> > the pack. We have them working pretty good. Have experienced a great deal
> > of mobile noise which seems to be corrected by using a 12v gel cell instead
> > of the auto electrical system.
> >
> > I have one remaining flustrating probem. I am using a Kenwood TM-741 and a
> > Kenwook TM-742 transceiver. I have done the modification of R26 and a diode
> > as mentioned in the e-mails. I have tried various diodes and in different
> > combos.
> > No one mention which way the diode should be inserted so I have tried it
> > both ways. I CANNOT KEEP THE KENWOOD FROM TRANSMITTING WHEN THE POWER TO
> > THE MIC-E IS TURNED OFF. I have lifted the R26 resistor at the VCC side as
> > shown in the schematic. I then put the diode in series with it and
> > connected the diode to pin 16 of the personality plug. I unit works just
> > fine when the power is on the mic-e, but constantly causes the TM-741 to
> > transmit even when the power plug is removed from the mic-e unit.
> >
> > Can anyone offer a suggestion or has anyone solved this probelm with a
> > Kenwood?
> >
> > Thanks,
> >
> > Ron Drumheller, K3NXF
> > 471 Calor Drive
> > Buellton, CA 93427
> >
> > E-mail to: k3nxf@silcom.com
> >
> >
>
> APRSdos REPLY/COMMENT:
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

34. [MIC-E:1305] Re: Problems/Solutions

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Mon, 28 Jul 1997 12:18:59 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DCD38B.6623@uakron.edu>
Rendered body type: text/plain

Ronald G. Parsons wrote:
>
> I had this problem when using a Mac PowerBook which didn't exactly like the
> RS-232 signals. The values did get programmed correctly but the DISP lost some bytes.
>
> Might try a different computer.
>
> Ron
>
> Melvin C. Vye wrote:
> ..
> > I still have a problem with PERMing values. If I enter
> > RELAY, WIDE, WIDE
> > and do a reset and disp, I may get
> > RELAY, WID , WIDE
> > or something like that. In other words, it seems forgetful.
> >
> ..
> > 73 - Mel W8MV
>
> --
> Ron W5RKN
>
> also:
> rparsons@bga.com
In my case, the values don't get programmed correctly. When I look at
the data transmitted, it is the same as I see with a DISP.

Still, I'll try it with my laptop and see if there is any change.
Thanks -
Mel W8MV

35. [MIC-E:1306] Re: Problems/Solutions

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Mon, 28 Jul 1997 12:40:25 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DCD6F4.7669@uakron.edu>
Rendered body type: text/plain

Bob Bruninga wrote:
>
> On Sun, 27 Jul 1997, Melvin C. Vye wrote:
>
> > I use the mic-e on my car, boat and bicycle, so I'm always changing
> > MYC to W8MV-9, W8MV-8 or W8MV-4 with appropriate MYS changes.
>
> APRSdos REPLY/COMMENT: There is no need to change the SSID, since it
> means nothing on a Mic-E. But I think you know that already since you did
> mention changing the MYSymbol too..
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

Bob,
I don't understand. When I look at the screen on my home computer,
I see W8MV-4, W8MV-8 or W8MV-9 depending on what call I perm into
the Mic-e.

Shouldn't the SSID correspond to the MYS all of which corresponds to
the type of vehicle you're using?

Mel W8MV

36. [MIC-E:1307] Re: Problems/Solutions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 28 Jul 1997 18:05:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970728190025.7585E-100000@arctic>
Rendered body type: text/plain

Not necessary. THe Mic-E gets its symbol form MYS only...

On Mon, 28 Jul 1997, Melvin C. Vye wrote:

> Bob Bruninga wrote:
> >
> > On Sun, 27 Jul 1997, Melvin C. Vye wrote:
> >
> > > I use the mic-e on my car, boat and bicycle, so I'm always changing
> > > MYC to W8MV-9, W8MV-8 or W8MV-4 with appropriate MYS changes.
> >
> > APRSdos REPLY/COMMENT: There is no need to change the SSID, since it
> > means nothing on a Mic-E. But I think you know that already since you did
> > mention changing the MYSymbol too..
> >
> > Reply mail addr: wb4apr@amsat.org
> > US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> > See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> > See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> > See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
> Bob,
> I don't understand. When I look at the screen on my home computer,
> I see W8MV-4, W8MV-8 or W8MV-9 depending on what call I perm into
> the Mic-e.
>
> Shouldn't the SSID correspond to the MYS all of which corresponds to
> the type of vehicle you're using?
>
> Mel W8MV
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

37. [MIC-E:1308] Info on repeater interfacing

From: Jack & Lorrie Smith <lsmith@ala.net>
Date: Mon, 28 Jul 1997 18:57:14 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DD30BE.89C@ala.net>
Rendered body type: text/plain

Hello,

Is there a test file out there anywhere that describes the
repeater/digipeater interfacing?

KE4LWT Jack

38. [MIC-E:1309] Thanks Bob B. & Ron P. - Question for TAPR

From: Ron Drumheller <k3nxf@silcom.com>
Date: Mon, 28 Jul 1997 22:51:05 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199707290343.UAA17527@beach.silcom.com>
Rendered body type: text/plain

Thanks Bob Bruninga and Ron Parsons for the quick response about
the PPT problem that I posted (Kenwood TM-741). I will try the mod again
now that the direction has been made more clear. It will be a few days
until I can get to it, but I will let you know the results.

FOR TAPR:

Questions for TAPR. Is anyone at TAPR keeping a log other than this
email about all the mods and problems that users are finding? It would
be nice if TAPR issued correction documents showing the circuit changes,
parts changed, and updated the manual again. There seems to be a lot
of confusion about which LED's should be lit and what color and when.
What if anything is being done about the inadequate power filtering on the
unit? We should not have to run it from a stand alone battery to make it
work correctly.

I still think that the MIC-E is a super great idea! I just wish it would
have been
more stable before release. I am surprised that these problems were not
discovered during beta testing. Also, I found many "cold solder" joints on the
board and some flow through holes that were not solder filled. Some of our
units required a dummy plug to program them and some of the units did not.
We found that a flow through hole was closed on some boards and open on
the others. Some of the LED's did not work and it again was due to poor
solder connections. Basically, we have now gone all over the seven boards and
re-soldered the connections. PacComm is really doing a sloppy job and
TAPR should let them know about it!

I want this MIC-E to succeed. We really need it for ARES work and to
support public service events. We ALL need TAPR to take a more positive
stand to correct the problems, get these units stable, and provide corrective
documents.

Thanks for listening to me.
Ron Drumheller, K3NXF
k3nxf@silcom.com

39. [MIC-E:1310] TAPR needs volunteers

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 29 Jul 1997 08:46:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DDF30D.FEB00B34@amsat.org>
Rendered body type: text/plain

Was [MIC-E:1309] Thanks Bob B. & Ron P. - Question for TAPR

Ron Drumheller wrote:
..
> Questions for TAPR. Is anyone at TAPR keeping a log other than this
> email about all the mods and problems that users are finding? It would
> be nice if TAPR issued correction documents showing the circuit changes,
> parts changed, and updated the manual again. There seems to be a lot
> of confusion about which LED's should be lit and what color and when.
> What if anything is being done about the inadequate power filtering on the
> unit? We should not have to run it from a stand alone battery to make
> it work correctly.

Remember TAPR is an all volunteer organization. The system keeps an archive of
all e-mail messages. Someone (can you do it?) needs to step up and volunteer.
As far as I know, the only circuit change since production is the diode you
referred to. This was documented earlier.

The LED status is correct in the manual. The latest manual is on the ftp site.
The only error there I know of is the Yaesu 8-pin round mic ground should be 7
rather than 8.

I don't believe that power filtering should be built into the MIC-E as this
would increase the cost to many that do not need it. Filter the power before
it gets to the MIC-E. There are quite a few power input options.

Again, volunteers are needed. Step up.
--
Ron W5RKN

also:
rparsons@bga.com

40. [MIC-E:1311] Re: Mic-E power options...

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Jul 1997 09:24:51 -0500 (CDT)

To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970729100258.4077B-100000@arctic>
Rendered body type: text/plain

Ron Drumheller commented on the problems with powering the Mic-E and how this would be solved in future productions.

APRSdos REPLY/COMMENT: Unfortunely this is the bigest difficulty in interfacing *anything* to a mobile radio at the Mic connector. I think you will find that this problem was made very clear in my README\MIC-E.TXT. In fact any TNC interfaced to a mic jack in a car will likely have audio quality problems due to power and ground loop noise that are worse than the Mic-E.

The Mic-E has implemented a separate Mic ground to minimize ground loop effects but some radios do NOT have the isolated Mic-gnd as an input so this advantage is lost on those radios.

THe Mic-E has many powering options, and can power the GPS too, but these are only options. They will not work for everyone depending on their GPS, their Radio, their Mic wiring, their automobile, and their particular wiring to their automobile. These options were provided so that you could use them if you were lucky...

There is a reason why Delorem sells their GPS unit for *automobile* use designed to work with batteries only. (and they dont even have to worry about millivolt audio like we do...)

I dont see anything that can be done differently, but am of course open to suggestions...

See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

41. [MIC-E:1312] PERMing problems

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Tue, 29 Jul 1997 11:21:57 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DE16C3.1BEC@uakron.edu>
Rendered body type: text/plain

A few days ago, I reported problems with flakey data being PERMed in the mic-e. Ron Parsons suggested that I try another computer. Here are the results with three different computers:

COMPUTER	RESULTS
486/100	Flakey operation as reported
386/20	COM LINK FAILURE on both ports 1 and 2
386/25 LAPTOP	Perfect operation

Thanks, Ron, for your help.

42. [MIC-E:1313] Re: PERMing problems

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 29 Jul 1997 12:53:56 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DE2D53.4C4D651@amsat.org>
Rendered body type: text/plain

Now, of course, it will be interesting to understand these results.

I assume you are using the RS-232 input/outputs. If you have access to a scope, what are the mark and space levels? I'm wondering if the RS-232 conversion chip is not doing its job.

Ron

Melvin C. Vye wrote:
>
> A few days ago, I reported problems with flakey data being PERMed in
> the mic-e. Ron Parsons suggested that I try another computer. Here
> are the results with three different computers:
>
> COMPUTER   RESULTS

>
> 486/100   Flakey operation as reported
>
> 386/20   COM LINK FAILURE on both ports 1 and 2
>
> 386/25 LAPTOP   Perfect operation
>
> Thanks, Ron, for your help.

--
Ron W5RKN

also:
rparsons@bga.com

43. [MIC-E:1314] Re: PERMing problems MIC-E digest 184

From: Dan Welch <amersci@flash.net>
Date: Tue, 29 Jul 1997 17:17:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970729151616.0093bb70@pop.flash.net>
Rendered body type: text/plain

>Date: Tue, 29 Jul 1997 12:13:55 -0400
>From: "Melvin C. Vye" <mvye@uakron.edu>
>To: mic-e@tapr.org
>Subject: PERMing problems
>Message-ID: <33DE16C3.1BEC@uakron.edu>
>
> <snip>
>
>COMPUTER   RESULTS
>
>386/20   COM LINK FAILURE on both ports 1   and 2
>

I have also had comm problems with MIC-E on by 486-DX2-66. MIC-E just
won't communicate with the machine regardless of the port number or port
setup.

My 486-25 Lap Top works fine with the MIC-E.

I have not encountered any other RS-232 communications
problems on either machine with any other device.

73 de KF6IZO

Dan Welch
amersci@flash.net

44. [MIC-E:1315] Re: TAPR needs volunteers

From: Jack & Lorrie Smith <zzz.lsmith@ala.net>
Date: Tue, 29 Jul 1997 18:52:17 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33DE80AC.2116@ala.net>
Rendered body type: text/plain

Ronald G. Parsons wrote:
>
> Again, volunteers are needed. Step up.
> --
> Ron W5RKN
>
Ron,

I've got messages 1300 thru current message archived. If there are any
more, I can't help. But if this is it, I'll volunteer.

Jack KE4LWT
--
To Reply: Remove the anti-spam "zzz." from the beginning of the e-mail
address.

45. [MIC-E:1317] Re: TAPR needs volunteers

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 30 Jul 1997 01:07:38 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03020906b00487de5c8d@[208.134.134.40]>
Rendered body type: text/plain

I'll be redoing the docs sometime the end of August. If someone can start
collecting the changes -- that would be a big help.

Cheers - Greg

>Ronald G. Parsons wrote:
>>
>> Again, volunteers are needed. Step up.
>> --
>> Ron W5RKN
>>
>Ron,
>
>I've got messages 1300 thru current message archived. If there are any
>more, I can't help. But if this is it, I'll volunteer.
>
>Jack KE4LWT
>--
>To Reply: Remove the anti-spam "zzz." from the beginning of the e-mail
>address.

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

    "Before you become too entranced with gorgeous gadgets
     and mesmerizing video displays, let me remind you that
     information is not knowledge, knowledge is not wisdom,
     and wisdom is not foresight. Each grows out of the other
     and we need them all."   -Arthur C. Clarke

August 1997

Original source file: mic-e.9708
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9708

1. [MIC-E:1319] Trouble Communicating w/ MIC-e

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Wed, 6 Aug 1997 12:47:31 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.2.32.19970806134323.00bf4e60@pop.mass-usr.com>
Rendered body type: text/plain

I just picked up my new MIC-E and am assembling it and programming it, and ran into an interesting problem...

As a member of the Beta test group, I went through problems and then solutions to the problem of the PC talking to the MIC-E for programming, eventually finding the right PC with a compatible serial interface. Now, the problems have been addressed with the RS-232 chip in there clearly, but I have slightly different problems.

I'm able to get MIC107 to talk to the MIC-E, set mode MIC, MYC, VIA, etc do a PERM and a reset and it looks like the MIC-E isn't able to sucessfully write to the non volatile memory sucessfully. Every time I do a DISP, or power down, and re-run MIC107, all of the data I've set is corrupted. Things like binary characters are showing in MIC107, the BT string gets alternatively shortened with the correct text or corrupted.

Basically, I clearly can't get the thing to program, hold, or retrieve the data from MIC107. Has anyone else seen this? Is it a sick MIM or is it all really ok when I put it on the air? It's not on the air yet as I'm still wiring cables to the 8 pin MIC connector. The LEDs seem to light in a manner I expect.

I ought to know whats going on here, since I was involved in the Beta test of this guy, but I'm stumped at the moment.

Any ideas?

- Tom Kinahan N1CPE

Tom Kinahan	Phone:	508-871-0305
3Com	Fax:	508-870-1689
4 Technology Dr.	Email:	n1cpe@amsat.org
Westboro, Ma. 01581	Amateur Radio:	N1CPE

Homepage: http://www.geocities.com/SiliconValley/Vista/9683/

2. [MIC-E:1320] Re: Trouble Communicating w/ MIC-e

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Wed, 6 Aug 1997 14:27:42 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.2.32.19970806152608.00cefb74@pop.mass-usr.com>
Rendered body type: text/plain

Cliff,

I just went searching through the MIC-E archives for what your problems with the MIC-E might have been, and at least based on a search for messages with your call in it, I'm not sure I can tell. Some GPS-20 things, some wiring things, connectors are things I saw.

The reason I'm sending you this message, is that on that search, I found that you live in Morro Bay Ca. My wife and I took a California vacation in May, and drove from San Francisco to Los Angeles, and stopped at a bunch of places along the way, including, Morro Bay! That town was certainly one of the highlights of our trip... We were only there one night, and drove out to the rock, walked around the waterfront, went looking for a Mini Golf place that we thought we saw signs for on the way in but gave up. To me, it was much nicer than the more commercial places in Monterrey and Carmel, and seemed like a nice quiet tourist/fishing town. We both agreed that when we want to get away from things next time, we'd spend some more time in Morro Bay! The only problem is that it's only 3000 miles from home!

73!

- Tom Kinahan N1CPE

Tom Kinahan   Phone: 508-871-0305
3Com   Fax: 508-870-1689
4 Technology Dr.   Email: n1cpe@amsat.org
Westboro, Ma. 01581   Amateur Radio: N1CPE
Homepage: http://www.geocities.com/SiliconValley/Vista/9683/

3. [MIC-E:1321] Re: Trouble Communicating w/ MIC-e

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 6 Aug 1997 16:55:38 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33E8EF8C.6460BF8C@amsat.org>
Rendered body type: text/plain

Another proson (Dan Welch <amersci@flash.net>) also reported a similar
problem. I asked him if he had a scope to look at the RS-232 I/O. No response.
Do you have access to a scope to measure the rails of the RS-232 input/output?

Ron

Tom Kinahan wrote:
..
> I'm able to get MIC107 to talk to the MIC-E, set mode MIC, MYC, VIA,
> etc
> do a PERM and a reset and it looks like the MIC-E isn't able to
> sucessfully
> write to the non volatile memory sucessfully. Every time I do a DISP,
> or
> power down, and re-run MIC107, all of the data I've set is corrupted.
> Things like binary characters are showing in MIC107, the BT string
> gets
> alternatively shortened with the correct text or corrupted.
..
--
Ron W5RKN

also:
rparsons@bga.com

4. [MIC-E:1322] sending non-formatted text with the mic-e ?

From: "Don Elsner" <elsner@alpha1.csd.uwm.edu>
Date: Wed, 6 Aug 1997 19:07:35 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199708070005.TAA05110@batch1.csd.uwm.edu>
Rendered body type: text/plain

I have just the mic-e module, not the whole kit. I want to send either the
NMEA GPS
string (which is not a problem) or I would like to be able to send just a 3
digit heading
from a Vector compass module. I am using a Basic Stamp module to convert
the
raw output of the Vector compass module into ascii, so I could make a dummy

GPS sentence and just insert the compass heading into the sentence, but
that seems
like a lot of work. Another alternative that I had considered was to use
the mic-e
TTL sampling option and sample 1 character from the compass at a time, but
the
heading might change too rapidly to make this a viable option.

Is anyone sending variable text with their mic-e? any ideas are
appreciated.

73 - Don KS9F

5. [MIC-E:1323] Re: Trouble Communicating w/ MIC-e

From: "Melvin C. Vye" <mvye@uakron.edu>
Date: Thu, 7 Aug 1997 18:55:25 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <33EA5EB0.1CA1@uakron.edu>
Rendered body type: text/plain

Tom Kinahan wrote:
>
> I just picked up my new MIC-E and am assembling it and programming it, and
> ran into an interesting problem...

>
> As a member of the Beta test group, I went through problems and then
> solutions to the problem of the PC talking to the MIC-E for programming,
> eventually finding the right PC with a compatible serial interface. Now,
> the problems have been addressed with the RS-232 chip in there clearly, but
> I have slightly different problems.
>
> I'm able to get MIC107 to talk to the MIC-E, set mode MIC, MYC, VIA, etc
> do a PERM and a reset and it looks like the MIC-E isn't able to sucessfully
> write to the non volatile memory sucessfully. Every time I do a DISP, or
> power down, and re-run MIC107, all of the data I've set is corrupted.
> Things like binary characters are showing in MIC107, the BT string gets
> alternatively shortened with the correct text or corrupted.
>
> Basically, I clearly can't get the thing to program, hold, or retrieve the
> data from MIC107. Has anyone else seen this? Is it a sick MIM or is it all
> really ok when I put it on the air? It's not on the air yet as I'm still
> wiring cables to the 8 pin MIC connector. The LEDs seem to light in a
> manner I expect.
>
> I ought to know whats going on here, since I was involved in the Beta test
> of this guy, but I'm stumped at the moment.
>
> Any ideas?
>
> - Tom Kinahan N1CPE
> --
> Tom Kinahan   Phone: 508-871-0305
> 3Com   Fax: 508-870-1689
> 4 Technology Dr.   Email: n1cpe@amsat.org
> Westboro, Ma. 01581   Amateur Radio: N1CPE
> Homepage: http://www.geocities.com/SiliconValley/Vista/9683/I had the same problem with mine. Tried 3
 different computers.
A 386-20 wouldn't even recognize that the mic-e existed. A 486-100
had flakey operation, similar to what you described. A 386-25
lap-top worked perfectly.
If you have access to other computers, try those.
Mel W8MV

6. [MIC-E:1325] Resolution: Mic-E communication w/ PC

From: Tom Kinahan <kinahan@cassatt.Mass-USR.COM>
Date: Wed, 13 Aug 1997 15:34:59 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.2.32.19970813163020.00a95f3c@pop.mass-usr.com>
Rendered body type: text/plain

Folks,

 After exchanging emails with a few on the list, I finally did resolve my
problem with my production MIC-E talking to my PC for programming. All the
while, the PC did talk with my BETA MIC-E leading to my confusion.

 The problem was this: I have an internal GPS-20 installed in the MIC-E.
Without a plug installed in the proper jack on the back of the unit, the
data from the GPS was "mixing" with the data I was trying to send down to
the unit from the PC in RS-232 land. Inserting the plug into the jack
disconnects the internal GPS from the serial input, and magic! everything
works fine. So, the moral of the story is remember all the messages on the
SIG here about programming the MIC-E with internal GPS, AND remember to
insert a plug into the proper jack on the back of the unit to program the
MIC-E if you have an internal GPS installed.

 I didn't see this in the manual, but I know I have seen this written, and
I'm assuming I saw it here on the SIG.

 73, and thanks to those who helped me jog my memory!

  - Tom Kinahan N1CPE

Tom Kinahan   Phone: 508-871-0305
3Com   Fax: 508-870-1689
4 Technology Dr.   Email: n1cpe@amsat.org
Westboro, Ma. 01581   Amateur Radio: N1CPE
Homepage: http://www.geocities.com/SiliconValley/Vista/9683/

7. [MIC-E:1327] Help ... MIC-E Died :(

From: Dan Welch <amersci@flash.net>
Date: Mon, 18 Aug 1997 19:58:23 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970818175352.0094cb70@pop.flash.net>
Rendered body type: text/plain

Bad News, my healthy and strong MIC-E died ... It was working great when I
turned it off last.

Symptoms are a bit strange, maybe like part of the PIC program quit.

First indication was that the "fix led" quit pulsing and
no packets were being transmitted.

When I turn MIC-E power on the led goes red for a few seconds then yellow.

Manually keying the transmitter results in no packet being
sent even when one should be. Auto function also sends no
packets.

Rockwell GPS Development kit being used externally through
the RS-232 connector (J2) only pins 3 & 5 connected to the
MIC-E from the GPS. The GPS functioning has been verified
via other software and a computer.

A scope on ADM232 pin 9 and PIC pin 18 confirms RS-232 data
is being received and getting to the PIC.

Looking at the PIC pin 17 with the scope shows a constant
high with no pulses. Pulling pin 17 low through a resistor confirms that
the led is properly responding.

Anyone have any further suggestions?

If I need to replace the PIC how do I go about getting a programmed
replacement?

Is the PIC code going to be available for us to load our own?

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

8. [MIC-E:1328] Re: Help ... MIC-E Died :(

From: Dan Welch <amersci@flash.net>
Date: Thu, 21 Aug 1997 00:19:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970820221401.00948a10@pop.flash.net>
Rendered body type: text/plain

My MIC-E is still dead. Good serial input from GPS to PIC chip, (Verified
with separate software program).
FIX indicator does not flash but is capable of displaying both red & green.

Bob Bruninga suggested that I try re-programming it. The MIC-E accepted
the setup configuration as verified by using a second computer to read out
the parameters after programming.

STILL no fix indicator flashes and no packet transmissions although
manually keying the mike does key the transmitter.

I am suspecting that the firmware program in the PIC somehow got zapped.
Everything that I looked at with a scope looks reasonable. Anyone have any
other suggestions?

Thanks for your help!

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

9. [MIC-E:1329] Re: Help ... MIC-E Died :(

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 21 Aug 1997 00:42:37 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110707b02184712a66@[192.168.1.2]>
Rendered body type: text/plain

Well -- if you need a replacement PIC, you'll need to contact Clement Eng
and get a programmed one from them.

TAPR doesn't have any spares now and the last time we polled PacComm they
suggested that we contact Will directly.

Is there anyone in your area that you might try testing your PIC chip in
their unit ?

Greg

>My MIC-E is still dead. Good serial input from GPS to PIC chip, (Verified
>with separate software program).
>FIX indicator does not flash but is capable of displaying both red & green.
>
>Bob Bruninga suggested that I try re-programming it. The MIC-E accepted
>the setup configuration as verified by using a second computer to read out
>the parameters after programming.
>
>STILL no fix indicator flashes and no packet transmissions although
>manually keying the mike does key the transmitter.
>
>I am suspecting that the firmware program in the PIC somehow got zapped.
>Everything that I looked at with a scope looks reasonable. Anyone have any
>other suggestions?
>
>Thanks for your help!
>
>
>
>73, de KF6IZO
>
>Dan Welch
>kf6izo@qsl.net

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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     and mesmerizing video displays, let me remind you that
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     and wisdom is not foresight. Each grows out of the other
     and we need them all."   -Arthur C. Clarke

10. [MIC-E:1332] Re: Help ... MIC-E Died :(

From: TonyDrumm@ibm.net (Tony Drumm)
Date: Thu, 21 Aug 1997 17:53:16 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199708212249.WAA183504@out1.ibm.net>
Rendered body type: text/plain

Greg,

I ordered a new PIC for my beta Mic-E from TAPR a while ago. Are those
orders going to be filled?

Thanks.
Tony

>Well -- if you need a replacement PIC, you'll need to contact Clement Eng
>and get a programmed one from them.
>
>TAPR doesn't have any spares now and the last time we polled PacComm they
>suggested that we contact Will directly.
>
>Is there anyone in your area that you might try testing your PIC chip in
>their unit ?
>
>Greg

>
Tony Drumm
ARS AA0SM - Rochester, MN

11. [MIC-E:1333] Re: Help ... MIC-E Died :(

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 21 Aug 1997 18:18:48 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v0311070cb0227aa8458d@[192.168.1.2]>
Rendered body type: text/plain

We have them ordered with PacComm -- but haven't talked to Gwyn to see if
we are getting any extras with our next batch or not.

I'll let you all know when I know.

Greg

>Greg,
>
>I ordered a new PIC for my beta Mic-E from TAPR a while ago. Are those
>orders going to be filled?
>
>Thanks.
>Tony
>
>>Well -- if you need a replacement PIC, you'll need to contact Clement Eng
>>and get a programmed one from them.
>>
>>TAPR doesn't have any spares now and the last time we polled PacComm they
>>suggested that we contact Will directly.
>>
>>Is there anyone in your area that you might try testing your PIC chip in
>>their unit ?
>>
>>Greg
>>
>Tony Drumm
>ARS AA0SM - Rochester, MN

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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12. [MIC-E:1334] Java blues

From: Larry Mollica <larryLM@gte.net>
Date: Fri, 22 Aug 1997 01:45:20 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <l03110700b022e1ce6c44@[181.100.100.101]>
Rendered body type: text/plain

Ok, more stupid questions...
(Oh, yes there are!)

Is there any reason why a Mic Encoder APRS would _not_ show up on javAPRS
web pages that appear to be showing current data from other APRS stations
in my area?

I don't have a TNC at this time, and probably won't until later next month,
so I don't have any other means to check it. (Told you this was stupid...)

The MicE is set per the VIAs in the book.
Switches on:
 Msg=3DDigi 0
 Path=3DOmni 2

It sounds like my packets are repeated back most of the time, I'm
reasonably sure I'm being heard.

Web pages (among others I've checked):

http://www.ne1h.radio.org/aprs/
and

http://www.aprs.net/k4hg.html
While I showed up on neither of these maps, I did show up in the browser's
Java console window on this last web page:

```
>javAPRS 1.7b9 =A9 1997 Steve Dimse K4HG http://www.aprs.net/k4hg.html
>Map: usa.mp scale: 0.571973 offsetX: -119 offsetY: -127
>Message: OS/2 APRS Server: 208.148.146.178 connected. 4 users online.
>Mic-E: WA6FSJ-12>RELAY>WIDE*>SSTWRX:`-M#l"Tj/
        ^^^^^^
```

I don't know how to take this, as mine was the only call to show up in this
part of the java console output, ahead and separate from the other stuff.
As if it were some sort of error output.
Have I screwed up?

Larry Mollica, WA6FSJ
Orange, CA

13. [MIC-E:1335] Re: Java blues

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Fri, 22 Aug 1997 01:59:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199708220656.BAA19127@tapr.org>
Rendered body type: text/plain

```
>Is there any reason why a Mic Encoder APRS would _not_ show up on javAPRS
>web pages that appear to be showing current data from other APRS stations
>in my area?
>
```
Yes, the javAPRS code does not parse Mic-E packets yet...

```
>
>>javAPRS 1.7b9 =A9 1997 Steve Dimse K4HG http://www.aprs.net/k4hg.html
>>Map: usa.mp scale: 0.571973 offsetX: -119 offsetY: -127
>>Message: OS/2 APRS Server: 208.148.146.178 connected. 4 users online.
>>Mic-E: WA6FSJ-12>RELAY>WIDE*>SSTWRX:`-M#l"Tj/
>        ^^^^^^
>
>I don't know how to take this, as mine was the only call to show up in this
>part of the java console output, ahead and separate from the other stuff.
>As if it were some sort of error output.
>Have I screwed up?
```

This is the stub where I need to add the code, I just print out when I
recognize a Mic-E...that was as far as I got before I had to work on
something else. That is at the top of my javAPRS list, however it may not
be till after DCC before I get to fix it.

Sorry for the inconvenience...

Steve K4HG

14. [MIC-E:1336] Case Studies

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 22 Aug 1997 14:07:02 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110702b0238fec1d8c@[192.168.1.2]>
Rendered body type: text/plain

I am working on some articles for future publication regarding the MIC-E.
I am looking for a few case studies to use in these telling about how
people are using their units.

If you have an interesting story or situation the MIC-E is getting used in
-- please let me know.

Also -- send e-mail directly. I tend to not read everything that comes
across the APRS SIG.

Cheers - Greg, WD5IVD

Greg Jones, WD5IVD
Austin, Texas

wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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15. [MIC-E:1337] Re: Help ... MIC-E Died :(

From: Dan Welch <amersci@flash.net>
Date: Fri, 22 Aug 1997 20:00:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19970822175330.009423f0@pop.flash.net>
Rendered body type: text/plain

Anyone out there in the vicinity of Anaheim, CA ?

As you have probably noticed I have experienced a MIC-E failure that looks
suspiciously like a firmware failure.

Greg Jones, WD5IVD, suggested that I find someone in my area who can test
my PIC in their MIC-E. If you can assist please EMAIL me directly.

Thanks for your help.

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

16. [MIC-E:1338] Re: Help ... MIC-E Died :(

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 22 Aug 1997 22:50:03 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110704b0240c4cd47e@[192.168.1.2]>
Rendered body type: text/plain

Hi again Dan.

If you can't find anyone -- then we probably need to get you to return the
unit so we can get it in and check it out.

Cheers - Greg

>Anyone out there in the vicinity of Anaheim, CA ?
>
>As you have probably noticed I have experienced a MIC-E failure that looks
>suspiciously like a firmware failure.
>
>Greg Jones, WD5IVD, suggested that I find someone in my area who can test
>my PIC in their MIC-E. If you can assist please EMAIL me directly.
>
>Thanks for your help.
>
>
>
>
>
>73, de KF6IZO
>
>Dan Welch
>kf6izo@qsl.net

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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17. [MIC-E:1339] MIC-E Manual

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 24 Aug 1997 19:57:36 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110704b0268713ce53@[208.134.134.40]>
Rendered body type: text/plain

I'll be working on a new version of the Manual in late Sept. If anyone
want to rewrite or reorganize sections of the current manual -- let me know.

I have heard comments made that suggested a few of you might have a better
way or presenting the materials. Here is your chance. :-)

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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18. [MIC-E:1340] RE: MIC-E Manual

From: "Craig F. Adams" <cfadams@loc100.tandem.com>
Date: Mon, 25 Aug 1997 12:34:03 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <01BCB141.8BDF7780.cfadams@loc100.tandem.com>
Rendered body type: text/plain

on another sub-subject, it would be nice to have an extensive section on
interfacing voice-repeaters on any band to the 2-meter APRS freqs. this
should include two or more repeaters feeding one 2-mtr APRS system. please
include theory, diagrams, and complete description of a working system.
 thx.

-----Original Message-----
From: Greg Jones, WD5IVD [SMTP:wd5ivd@tapr.org]
Sent: Sunday, August 24, 1997 5:58 PM
To: mic-e@tapr.org
Subject: [MIC-E:1339] MIC-E Manual

I'll be working on a new version of the Manual in late Sept. If anyone
want to rewrite or reorganize sections of the current manual -- let me
know.

I have heard comments made that suggested a few of you might have a better
way or presenting the materials. Here is your chance. :-)

Cheers - Greg

Greg Jones, WD5IVD
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19. [MIC-E:1341] RE: MIC-E Manual

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 25 Aug 1997 13:22:56 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3401CD4B.30854900@amsat.org>

Rendered body type: text/plain

I agree. I don't think Mic-E can really take off until the interface to
voice-repeaters and the APRS digi is in place.

I've done some work on elimination (really reducing) the number of false hits
on the voice repeater sensing a digital packet (see the Mic-E ftp area). Now
someone who has done the whole interface, write it up.

If no one has done it, someone who has a repeater under his control do it!

Ron

Craig F. Adams wrote:
>
> on another sub-subject, it would be nice to have an extensive section
> on interfacing voice-repeaters on any band to the 2-meter APRS freqs.
> this should include two or more repeaters feeding one 2-mtr APRS system.
> please include theory, diagrams, and complete description of a working
> system.
> thx.
>

--
Ron W5RKN

also:
rparsons@bga.com

20. [MIC-E:1342] RE: MIC-E Manual

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 25 Aug 1997 13:43:50 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110700b0277f1b4537@[208.134.134.40]>
Rendered body type: text/plain

>on another sub-subject, it would be nice to have an extensive section on
>interfacing voice-repeaters on any band to the 2-meter APRS freqs. this
>should include two or more repeaters feeding one 2-mtr APRS system. please
>include theory, diagrams, and complete description of a working system.
> thx.
>

Well -- we are looking for people to write it. The reason we didn't have
one in the first version was becuase no one ever wrote it.

Any volunteers ?

Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

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21. [MIC-E:1343] RE: MIC-E Manual

From: "Mark Doore (N3NTQ)" <mdoore@bellatlantic.net>
Date: Mon, 25 Aug 1997 14:23:25 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3401D9DD.DD82B60E@bellatlantic.net>
Rendered body type: text/plain

I am also very interested in this!!!

Mark/N3NTQ

--
Mark Doore   mdoore@bellatlantic.net
N3NTQ   http://www.webtrek.com/~laurel/mdoore.html
              (h) 301-572-2385 (w) 301-236-1965 (p) 301-930-0147

Laurel Amateur Radio Club   http://www.webtrek.com/~laurel/org/larc
---

Craig F. Adams wrote:

> on another sub-subject, it would be nice to have an extensive section on
> interfacing voice-repeaters on any band to the 2-meter APRS freqs. this
> should include two or more repeaters feeding one 2-mtr APRS system. please
> include theory, diagrams, and complete description of a working system.
> thx.
>
> -----Original Message-----
> From: Greg Jones, WD5IVD [SMTP:wd5ivd@tapr.org]
> Sent: Sunday, August 24, 1997 5:58 PM
> To: mic-e@tapr.org
> Subject: [MIC-E:1339] MIC-E Manual
>
> I'll be working on a new version of the Manual in late Sept. If anyone
> want to rewrite or reorganize sections of the current manual -- let me
> know.
>
> I have heard comments made that suggested a few of you might have a better
> way or presenting the materials. Here is your chance. :-)
>
> Cheers - Greg
>
> -----
> Greg Jones, WD5IVD
> Austin, Texas
> wd5ivd@tapr.org
> http://www.tapr.org/~wd5ivd
> -----
>
>   "Before you become too entranced with gorgeous gadgets
>   and mesmerizing video displays, let me remind you that
>   information is not knowledge, knowledge is not wisdom,
>   and wisdom is not foresight. Each grows out of the other
>   and we need them all."   -Arthur C. Clarke

22. [MIC-E:1344] Interfacing MIC-E to Voice Repeaters

From: Don Rotolo <ROTOLO@usa.mercedes-benz.com>
Date: Tue, 26 Aug 1997 09:42:10 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <s402b277.090@mail1.allegro.net>
Rendered body type: text/plain

I see many people interested in hearing how it is done, but
nobody offering to say how.

HAS anyone actually done this? If so, please tell us. If you can
tell us HOW you did it, so much the better. If you don't think you
have the time/skill/desire to write it up, then just send me a
message, and I'll write it up, using you as a technical reference.

In principle, it should be fairly simple - just use DCD from a state
machine to redirect the incoming audio to the APRS transmitter
instead of the repeater output. However, since I don't have a
repeater handy to play with, I can't really try it out.

Someone must have done something like this - the group would
be very interested in hearing about it.

73,
Don Rotolo N2IRZ
<n2irz@rats.org>

23. [MIC-E:1345] Re: Interfacing MIC-E to Voice Repeaters

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Tue, 26 Aug 1997 11:58:55 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SV4.3.95.970826125040.3832A-100000@outland.dtcc.edu>
Rendered body type: text/plain

It works as you described Don. I have a Kenwood 741 transceiver with
KPC-3 connected to the appropriate audio tap point on the repeater (147.30
in Dover, DE). The KPC-3 "repeats" the APRS burst on 145.79. No problems
were encountered. I am not doing this right now because the repeater is
being moved to another site, but it will be reinstalled when finished.

Sam

On Tue, 26 Aug 1997, Don Rotolo wrote:

> I see many people interested in hearing how it is done, but
> nobody offering to say how.
>
> HAS anyone actually done this? If so, please tell us. If you can
> tell us HOW you did it, so much the better. If you don't think you
> have the time/skill/desire to write it up, then just send me a
> message, and I'll write it up, using you as a technical reference.
>
> In principle, it should be fairly simple - just use DCD from a state
> machine to redirect the incoming audio to the APRS transmitter
> instead of the repeater output. However, since I don't have a
> repeater handy to play with, I can't really try it out.
>
> Someone must have done something like this - the group would
> be very interested in hearing about it.
>
> 73,
> Don Rotolo N2IRZ
> <n2irz@rats.org>
>
>

****
Dr. Sam Guccione   Delaware Technical & Community College
Chair Engineering   Terry Campus
Technologies/Physics   1832 North duPont Highway
302-741-2802   Dover, DE 19901
ARS K3BY   302-741-2838 Fax
****
         Delaware Rocket Launch Technical Home Page
           http://www.dtel.terry.dtcc.edu/~rocket
****

24. [MIC-E:1346] Interfacing to Repeaters...

From: "Jim Duncan, KU0G" <ku0g@kcaprs.org>
Date: Tue, 26 Aug 1997 12:59:19 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34031719.F56560CC@kcaprs.org>
Rendered body type: text/plain

Yes, it's easy to interface to a repeater, but has anybody had any
success with SILENCING the packet burst on the VOICE output of the
repeater. I've got a repeater that I can make a MIC-E repeater but
there are too many bitchers and the only way we can use the repeater is
to effectively silence the burst on the output...

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
Rogue Squadron Storm Chasers
EMail: ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

25. [MIC-E:1347] Re: Interfacing to Repeaters...

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 26 Aug 1997 14:13:52 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3403296D.51656F51@amsat.org>
Rendered body type: text/plain

Jim,

I don't know of a way to absolutely silence the packet burst since it takes
some number of millisecs to detect that a packet is being received. There is a
balance between false silencing of voice syllables and cutting off the packet
as soon as possible.

How quickly can a sub-audible tone be detected? Perhaps a sub-audible tone
could be added to Mic-Es in the future if that does not interfere with packet decoding.

Have you tried the circuit using a modified TAPR DCD state machine which is on
the mic-e ftp area? You can tweak the delay times. Perhaps you can make some

of your users happy some of the time!

Jim Duncan, KU0G wrote:
>
> Yes, it's easy to interface to a repeater, but has anybody had any
> success with SILENCING the packet burst on the VOICE output of the
> repeater. I've got a repeater that I can make a MIC-E repeater but
> there are too many bitchers and the only way we can use the repeater
> is to effectively silence the burst on the output...
>

--
Ron W5RKN

also:
rparsons@bga.com

26. [MIC-E:1348] Re: Interfacing to Repeaters...

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 26 Aug 1997 17:51:47 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.3.95.970826153234.17838H-100000@oso.slonet.org>
Rendered body type: text/plain

We have been trying to find a suitable answer to this for some time now
without too much sucess using CTCSS tones. Obviously, unless the tone is
detected by the RECEIVER and supressed, all information-voice or packet
tones- will be rebroadcast. In other words the repeater must broadcast
different tones for voice and APRS. Even then, some sort of store and
forward system is needed to be sure that the first few characters of the
packet signal is not lost. It is possible to use tones ONLY for voice but
again each user receiver must be suitably outfitted. Cliff K7RR

On Tue, 26 Aug 1997, Jim Duncan, KU0G wrote:

> Yes, it's easy to interface to a repeater, but has anybody had any
> success with SILENCING the packet burst on the VOICE output of the
> repeater. I've got a repeater that I can make a MIC-E repeater but
> there are too many bitchers and the only way we can use the repeater is
> to effectively silence the burst on the output...
>
> --
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> Rogue Squadron Storm Chasers
> EMail: ku0g@kcaprs.org
> Webpage: http://www.kcaprs.org
> BorgNet: 1st of 10
>
>

27. [MIC-E:1349] RE: MIC-E Manual

From: Ralph Fowler <rwf@mindspring.com>
Date: Tue, 26 Aug 1997 18:32:16 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19970826192506.0076ed70@mindspring.com>
Rendered body type: text/plain

I am waiting to do it, until I hear back about a reliable method of muting.
 Months ago, there was something about a new muting circuit being designed,
I thought- either from PacComm or TAPR. Newer heard anymore about it.

If someone has come up with something reliable, and not a kluge- then I'll
try to get it on the 146.655 Atlanta machine.

Ralph

At 01:22 PM 08/25/1997 -0500, you wrote:
>I agree. I don't think Mic-E can really take off until the interface to
>voice-repeaters and the APRS digi is in place.
>
>I've done some work on elimination (really reducing) the number of false hits

>on the voice repeater sensing a digital packet (see the Mic-E ftp area). Now
>someone who has done the whole interface, write it up.
>
>If no one has done it, someone who has a repeater under his control do it!
>
>Ron
>
>
>Craig F. Adams wrote:
>>
>> on another sub-subject, it would be nice to have an extensive section
>> on interfacing voice-repeaters on any band to the 2-meter APRS freqs.
>> this should include two or more repeaters feeding one 2-mtr APRS system.
>> please include theory, diagrams, and complete description of a working
>> system.
>> thx.
>>
>
>--
>Ron W5RKN
>
>also:
>rparsons@bga.com
>
>

28. [MIC-E:1350] Re: Interfacing to Repeaters...

From: Jeff Brenton <jeffb@stans.com>
Date: Tue, 26 Aug 1997 20:37:44 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <340383C3.1B22@stans.com>
Rendered body type: text/plain

> I am waiting to do it, until I hear back about a reliable method of muting.
> Months ago, there was something about a new muting circuit being designed,
> I thought- either from PacComm or TAPR. Newer heard anymore about it.

How about using an AND plus NAND gate combo; Logic is:

CD true, COS to repeater FALSE
COS true and CD false, COS to repeater TRUE
COS false and CD don't care, COS to repeater FALSE

If the repeater has an audio delay in it, the short burst that gets
through while trying to detect a carrier (using a hardware or software
CD) would be suppressed. If there is no delay available, then a small
burst WILL get through, no matter what you do or how fast you can detect
a true carrier.

29. [MIC-E:1351] Re: Interfacing to Repeaters...

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 26 Aug 1997 21:19:13 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34038DB5.983C0C5C@amsat.org>
Rendered body type: text/plain

Jeff Brenton wrote:
>
> > I am waiting to do it, until I hear back about a reliable method of
> muting.
> > Months ago, there was something about a new muting circuit being
> designed,
> > I thought- either from PacComm or TAPR. Newer heard anymore about
> it.
>
> How about using an AND plus NAND gate combo; Logic is:
>
> CD true, COS to repeater FALSE
> COS true and CD false, COS to repeater TRUE
> COS false and CD don't care, COS to repeater FALSE
>
> If the repeater has an audio delay in it, the short burst that gets
> through while trying to detect a carrier (using a hardware or software
> CD) would be suppressed. If there is no delay available, then a small
> burst WILL get through, no matter what you do or how fast you can
> detect
> a true carrier.

The main problem is with false CD indications on voice from most DCD

detectors. I made an attempt to improve the true/false ratio. It's on the
Mic-E ftp.

--
Ron W5RKN

also:
rparsons@bga.com

30. [MIC-E:1352] Re: Interfacing MIC-E to Voice Repeaters

From: Mark Humphrey <mark@y100.com>
Date: Wed, 27 Aug 1997 10:52:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34044BAA.4BFD@y100.com>
Rendered body type: text/plain

Don Rotolo wrote:

> HAS anyone actually done this? If so, please tell us. If you can
> tell us HOW you did it, so much the better.

So far, the most reliable muting scheme I've tried requires two TNCs. I
use a PacComm Tiny-2 with state DCD option as the primary TNC which
actually stores and forwards the packet. A second TNC (a Kantronics
KPC-3 set up for "software DCD") with only the RX audio input connected
provides an alternate method of carrier detection.

I have found that each TNC will occasionaly false on voice signals, but
it's unusual for them to both false at the same instant. However, both
TNCs almost always "agree" when an actual packet is received from a
Mic-E. So, by monitoring both DCD indications using an "AND" function,
a more reliable muting signal is obtained.

If you happen to have an extra KPC-3 on hand, you might want to consider
this scheme. Otherwise, it's kind of an expensive way to go... Give me
a few days and I'll try to post a schematic showing how to do it.

73, Mark KE3XY

31. [MIC-E:1353] Mic-E on Voice Repeaters

From: Jeff Brenton <jeffb@stans.com>
Date: Wed, 27 Aug 1997 20:58:58 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3404D9BF.2B9C@stans.com>
Rendered body type: text/plain

Why not just use two _different_ modem chips to vote on the validity of
the CD? Whatever type is in your TNC, find another type to AND with it
to create the "unCOS" signal...

>So far, the most reliable muting scheme I've tried requires two TNCs. I
>use a PacComm Tiny-2 with state DCD option as the primary TNC which
>actually stores and forwards the packet. A second TNC (a Kantronics
>KPC-3 set up for "software DCD") with only the RX audio input connected
>provides an alternate method of carrier detection.

>I have found that each TNC will occasionaly false on voice signals, but
>it's unusual for them to both false at the same instant. However, both
>TNCs almost always "agree" when an actual packet is received from a
>Mic-E. So, by monitoring both DCD indications using an "AND" function,
>a more reliable muting signal is obtained.

32. [MIC-E:1354] Re: MIC-E digest 199

From: Portia Marshall <mustang@zianet.com>
Date: Thu, 28 Aug 1997 02:36:49 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34052795.21C6@zianet.com>
Rendered body type: text/plain

mic-e@tapr.org wrote:
>
>   MIC-E Digest 199
>
> Topics covered in this issue include:
>
>   1) Interfacing MIC-E to Voice Repeaters

>   by Don Rotolo <ROTOLO@usa.mercedes-benz.com>
>   2) Re: Interfacing MIC-E to Voice Repeaters
>   by Dr Samuel Guccione <sguccion@outland.dtcc.edu>
>   3) Interfacing to Repeaters...
>   by "Jim Duncan, KU0G" <ku0g@kcaprs.org>
>   4) Re: Interfacing to Repeaters...
>   by "Ronald G. Parsons" <w5rkn@amsat.org>
>   5) Re: Interfacing to Repeaters...
>   by Clifford Buttschardt <cbuttsch@slonet.org>
>   6) RE: MIC-E Manual
>   by Ralph Fowler <rwf@mindspring.com>
>
> --
>
> Date: Tue, 26 Aug 1997 10:19:35 -0400
> From: Don Rotolo <ROTOLO@usa.mercedes-benz.com>
> To: mic-e@tapr.org
> Subject: Interfacing MIC-E to Voice Repeaters
> Message-ID: <s402b277.090@mail1.allegro.net>
>
> I see many people interested in hearing how it is done, but
> nobody offering to say how.
>
> HAS anyone actually done this? If so, please tell us. If you can
> tell us HOW you did it, so much the better. If you don't think you
> have the time/skill/desire to write it up, then just send me a
> message, and I'll write it up, using you as a technical reference.
>
> In principle, it should be fairly simple - just use DCD from a state
> machine to redirect the incoming audio to the APRS transmitter
> instead of the repeater output. However, since I don't have a
> repeater handy to play with, I can't really try it out.
>
> Someone must have done something like this - the group would
> be very interested in hearing about it.
>
> 73,
> Don Rotolo N2IRZ
> <n2irz@rats.org>
>
> ------------------------------
>
> Date: Tue, 26 Aug 1997 12:53:00 -0400 (EDT)
> From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
> To: mic-e@tapr.org
> Subject: Re: Interfacing MIC-E to Voice Repeaters
> Message-ID: <Pine.SV4.3.95.970826125040.3832A-100000@outland.dtcc.edu>
>
> It works as you described Don. I have a Kenwood 741 transceiver with
> KPC-3 connected to the appropriate audio tap point on the repeater (147.30
> in Dover, DE). The KPC-3 "repeats" the APRS burst on 145.79. No problems
> were encountered. I am not doing this right now because the repeater is
> being moved to another site, but it will be reinstalled when finished.
>
> Sam
>
> On Tue, 26 Aug 1997, Don Rotolo wrote:
>
> > I see many people interested in hearing how it is done, but
> > nobody offering to say how.
> >
> > HAS anyone actually done this? If so, please tell us. If you can
> > tell us HOW you did it, so much the better. If you don't think you
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> > be very interested in hearing about it.
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> > 73,
> > Don Rotolo N2IRZ
> > <n2irz@rats.org>
> >
> >

>
> **
> Dr. Sam Guccione   Delaware Technical & Community College
> Chair Engineering   Terry Campus
> Technologies/Physics   1832 North duPont Highway
> 302-741-2802   Dover, DE 19901
> ARS K3BY   302-741-2838 Fax
> **
>   Delaware Rocket Launch Technical Home Page
>   http://www.dtel.terry.dtcc.edu/~rocket
> **
>
> ------------------------------
>
> Date: Tue, 26 Aug 1997 12:49:13 -0500
> From: "Jim Duncan, KU0G" <ku0g@kcaprs.org>
> To: mic-e@tapr.org
> Subject: Interfacing to Repeaters...
> Message-ID: <34031719.F56560CC@kcaprs.org>
>
> Yes, it's easy to interface to a repeater, but has anybody had any
> success with SILENCING the packet burst on the VOICE output of the
> repeater. I've got a repeater that I can make a MIC-E repeater but
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> to effectively silence the burst on the output...
>
> --
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group
> Rogue Squadron Storm Chasers
> EMail: ku0g@kcaprs.org
> Webpage: http://www.kcaprs.org
> BorgNet: 1st of 10
>
> ------------------------------
>
> Date: Tue, 26 Aug 1997 19:07:26 +0000
> From: "Ronald G. Parsons" <w5rkn@amsat.org>
> To: mic-e@tapr.org
> Subject: Re: Interfacing to Repeaters...
> Message-ID: <3403296D.51656F51@amsat.org>
>
> Jim,
>
> I don't know of a way to absolutely silence the packet burst since it takes
> some number of millisecs to detect that a packet is being received. There is a
> balance between false silencing of voice syllables and cutting off the packet
> as soon as possible.
>
> How quickly can a sub-audible tone be detected? Perhaps a sub-audible tone
> could be added to Mic-Es in the future if that does not interfere with packet decoding.
>
> Have you tried the circuit using a modified TAPR DCD state machine which is on
> the mic-e ftp area? You can tweak the delay times. Perhaps you can make some
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> > is to effectively silence the burst on the output...
> >
>
> --
> Ron W5RKN
>
> also:
> rparsons@bga.com
>
> ------------------------------
>
> Date: Tue, 26 Aug 1997 15:44:20 -0700 (PDT)
> From: Clifford Buttschardt <cbuttsch@slonet.org>
> To: "Jim Duncan, KU0G" <ku0g@kcaprs.org>
> Subject: Re: Interfacing to Repeaters...
> Message-ID: <Pine.GSO.3.95.970826153234.17838H-100000@oso.slonet.org>

>
> We have been trying to find a suitable answer to this for some time now
> without too much sucess using CTCSS tones. Obviously, unless the tone is
> detected by the RECEIVER and supressed, all information-voice or packet
> tones- will be rebroadcast. In other words the repeater must broadcast
> different tones for voice and APRS. Even then, some sort of store and
> forward system is needed to be sure that the first few characters of the
> packet signal is not lost. It is possible to use tones ONLY for voice but
> again each user receiver must be suitably outfitted. Cliff K7RR
>
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> > --
> > 73 de Jim, KU0G
> > Chairman/Coordinator
> > Kansas City APRS Working Group
> > Rogue Squadron Storm Chasers
> > EMail: ku0g@kcaprs.org
> > Webpage: http://www.kcaprs.org
> > BorgNet: 1st of 10
> >
> >
>
> ------------------------------
>
> Date: Tue, 26 Aug 1997 19:25:06 -0400
> From: Ralph Fowler <rwf@mindspring.com>
> To: mic-e@tapr.org
> Subject: RE: MIC-E Manual
> Message-ID: <3.0.3.32.19970826192506.0076ed70@mindspring.com>
>
> I am waiting to do it, until I hear back about a reliable method of muting.
> Months ago, there was something about a new muting circuit being designed,
> I thought- either from PacComm or TAPR. Newer heard anymore about it.
>
> If someone has come up with something reliable, and not a kluge- then I'll
> try to get it on the 146.655 Atlanta machine.
>
> Ralph
>
> At 01:22 PM 08/25/1997 -0500, you wrote:
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> >voice-repeaters and the APRS digi is in place.
> >
> >I've done some work on elimination (really reducing) the number of false hits
> >on the voice repeater sensing a digital packet (see the Mic-E ftp area). Now
> >someone who has done the whole interface, write it up.
> >
> >If no one has done it, someone who has a repeater under his control do it!
> >
> >Ron
> >
> >
> >Craig F. Adams wrote:
> >>
> >> on another sub-subject, it would be nice to have an extensive section
> >> on interfacing voice-repeaters on any band to the 2-meter APRS freqs.
> >> this should include two or more repeaters feeding one 2-mtr APRS system.
> >> please include theory, diagrams, and complete description of a working
> >> system.
> >> thx.
> >>
> >
> >--
> >Ron W5RKN
> >
> >also:
> >rparsons@bga.com
> >
> >
>
> ------------------------------
>

> End of MIC-E Digest 199
> **********To: KU0G/Jim
Jim,
The solution to the problem you mentioned is conceptually simple. The audio to the repeater transmitter must be delayed sufficiently to give the sending station time to transmit a complete MIC-E burst and for the repeater TNC to decode it. Since we can't speed up the transmission or decoding, we must delay the audio to the transmitter. Once the TNC has decoded the burst, the DCD signal (or something else) can be used to mute the transmit audio. This could be done with an audio delay line, or several years ago I saw a design using a digital telephony CODEC chip and a shift register to delay the audio. This was used to mute the squelch tail on a repeater but the concept would apply equally well to this application. Several of the repeater controller manufacturers offer an optional squelch tail elimination kit (S-Com comes to mind) and might be usable in this application. This should mute the packet burst and yet be transparent to the analog voice users since the delay would only be a fraction of a second. Hope this helps and if you come up with a better way, let us all know.
Sincerely,
W7MBH/Dave

September 1997

Original source file: mic-e.9709
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9709

1. [MIC-E:1355] Pretty Good Solution? (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Sep 1997 10:37:31 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970904113111.25092I-100000@arctic>
Rendered body type: text/plain

Here is someone working on the Mic-E Voice repeater interface... I hope he doesnt mind my forwarding this on to the group...

---------- Forwarded message ----------
Date: Thu, 4 Sep 1997 09:00:35 -0400
From: "Faust, Greg (MIS, GEFanuc, NA)" <faustg1@gemischova.ge.com>
To: 'Bob Bruninga' <bruninga@arctic.nadn.navy.mil>
Subject: Pretty Good Solution?

Bob,
I've been working on a way to connect the MIC-E encoded packets on a voice repeater into the APRS network for sometime, now. We've talked about solutions before, but I've always wanted to find a way to connect the two without having 'missed' packets. The simple solutions, like ORing the received audio, will work most of the time, but in congested networks (like you might find at a public service event) the possibility of missing too many packets due to collisions always bothered me. Well, now with the recent Kantronics software upgrades, it seems like their might be a PGS (Pretty Good Solution).
The version 8.2 firmware for the Kantronics KPC-3 allows the use of the XCD pin on the radio connector to hold off the TNC from transmitting. Thank you Kantronics! Another neat aspect of this (determined experimentally) is that once the TNC starts transmitting, you can lower the XCD pin and it does not affect the transmission. These features make it possible to connect two (or more) TNCs together to share the same transmitter, without collisions. If you wire the PTT pins and the XCD pins of both TNCs all together into the PTT input of the transmitter, whenever one TNC is transmitting, it holds off the other one. The PTT outputs are open collector and can easily handle this, probably even connect three or four TNCs together. You still need to wire OR the mic audio of each TNC together into the transmitter input.
It appears you could have a number of receivers, each connected to a TNC, all sharing the same transmitter on 145.79. I'm going to hook up the WA4TFZ system so that one TNC listens to the voice repeater and the other listens to the 145.79 receiver. As you are aware, our Club voice repeater and APRS digi are located at the same site. Both of these KPC-3 TNCs will then share the same 145.79 transmitter. Any MIC-E packets received on 146.76, our voice repeater frequency, will be routed to 145.79, without collision.
Now, the hardware works OK, but I wonder about the TNC configuration. I was planning to set up the two TNCs identically. But then I read your note about putting the frequency of the MIC-E voice repeater in as the MYCALL of the TNC. Would that work here? Is it 'legal' to send a packet without the station call, even though the station periodically IDs correctly? And, do you suppose if both TNCs are set up the same, they would end up re-sending each others packets?
Anyway, I'll be setting up a trial system in my shack this weekend. This approach will not only work for co-located repeater sites like ours, but could be set up as a portable stand alone 'gateway' using two receivers, two TNCs and a transmitter. Of course, the added advantage for us is that the DCD output of the voice TNC can be used to mute the MIC-E packets on the voice repeater (S-COM makes a Digital Audio Delay Line that is perfect for this. It even has an audio gate to connect to the DCD output of the TNC).
73
Greg N4PGS
N4PGS@mailias.com

2. [MIC-E:1356] FW: Pretty Good Solution? (fwd)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Sep 1997 12:40:18 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970904132833.10968B-100000@arctic>
Rendered body type: text/plain

---------- Forwarded message ----------
Date: Thu, 4 Sep 1997 12:16:05 -0400
From: Gwyn Reedy <gwyn@paccomm.com>

Bob,
If I am understanding this guy's message correctly, ... [the ability to
combine two TNCs and one XMTR].. has ALWAYS been possible with the TNC-2
and its derivatives. The RFDCD input acts just like he describes. Hook PTT
of TNC A to RFDCD of TNC B and vice versa. They will share the radio.
de Gwyn

APRSdos comment: Yep, and the Tiny-2 can be used as-is for a Mic-E voice
repeter TNC, since its RFDCD can be used to monitor the packet channel
independently from the normal DCD listening to the voice channel and thus
properly perform collision avoidance...

3. [MIC-E:1357] Re: FW: Pretty Good Solution? (fwd)

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 4 Sep 1997 14:15:56 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.873400522.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

> ---------- Forwarded message ----------
> Date: Thu, 4 Sep 1997 12:16:05 -0400
> From: Gwyn Reedy <gwyn@paccomm.com>
>
> Bob,
> If I am understanding this guy's message correctly, ... [the ability to
> combine two TNCs and one XMTR].. has ALWAYS been possible with the TNC-2
> and its derivatives. The RFDCD input acts just like he describes. Hook PTT
> of TNC A to RFDCD of TNC B and vice versa. They will share the radio.
> de Gwyn
>
> APRSdos comment: Yep, and the Tiny-2 can be used as-is for a Mic-E voice
> repeter TNC, since its RFDCD can be used to monitor the packet channel
> independently from the normal DCD listening to the voice channel and thus
> properly perform collision avoidance...
>
>
>

If you add the DCD state machine mod, you take away RFDCD (it uses it).
/a

4. [MIC-E:1358] Re: FW: Pretty Good Solution? (fwd)

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 4 Sep 1997 14:25:57 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.873400895.alan@manila.cc.columbia.edu>
Rendered body type: text/plain

> > ---------- Forwarded message ----------
> > Date: Thu, 4 Sep 1997 12:16:05 -0400
> > From: Gwyn Reedy <gwyn@paccomm.com>
> >
> > Bob,
> > If I am understanding this guy's message correctly, ... [the ability to
> > combine two TNCs and one XMTR].. has ALWAYS been possible with the TNC-2
> > and its derivatives. The RFDCD input acts just like he describes. Hook PTT
> > of TNC A to RFDCD of TNC B and vice versa. They will share the radio.
> > de Gwyn
> >
> > APRSdos comment: Yep, and the Tiny-2 can be used as-is for a Mic-E voice
> > repeter TNC, since its RFDCD can be used to monitor the packet channel
> > independently from the normal DCD listening to the voice channel and thus
> > properly perform collision avoidance...
> >
> >
> >
>
> If you add the DCD state machine mod, you take away RFDCD (it uses it).
> /a
>

In fact, RFDCD is jumpered in the tiny-2 to OVERRIDE the "normal" DCD
coming from the modem. So it is either RFDCD or internal modem DCD
that you get. You have to add a gate or wired-OR them.
/a

5. [MIC-E:1359] Connecting two TNCs to the same transmitter

From: faustg@mail.comet.net (Greg Faust)
Date: Thu, 4 Sep 1997 17:12:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <340F3177.7736@comet.net>
Rendered body type: text/plain

(in reference to a message from Bob Bruninga)
Bob,
  Connecting two TNCs to the same transmitter is not a new idea, I just got excited about the prospect of using the KPC-3, which has one of the best software data carrier detection schemes that I've seen. The software DCD works really well when it comes to monitoring a voice channel and not falsely detecting voice for packets.
  To the best of my knowledge, the KPC-3s haven't been able to use the external carrier detect input as a transmitter holdoff until this latest version of software.
  There are certainly other TNCs with good carrier detection schemes - I understand that the folks at TAPR are working on a DCD add-on option for the TNC-2 that will work well on a voice channel. Lots of good things happening for APRS!
73
Greg N4PGS
N4PGS@mailias.com

6. [MIC-E:1360] Connecting Oncore to Mic-E

From: "Mark A. Keiser" <mkeiser@cisco.com>
Date: Mon, 8 Sep 1997 12:33:51 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19970908103050.0069fb08@lint.cisco.com>
Rendered body type: text/plain

I would appreciate any help in connecting the Motorola Oncore to the Mic-E, especially before I start soldering. Is it just a simple "connect the wires" deal? Also, how do I program the Oncore after it is installed - thru the serial port on the Mic-E (or is it just "plug-n-play", i.e., turn it on and it'll work)?

Responses to mkeiser@cisco.com would be helpful, but remember - I'm a lawyer, not an electronics genius!

If you reply to the listserver, I get the digest version and may not see your reply for a while.

73s de N4OGL
Mark

7. [MIC-E:1361] mic-e + APRS trial for Gliders at Cambridge, England

From: Ian Lewis <Ian.Lewis@cl.cam.ac.uk>
Date: Tue, 9 Sep 1997 04:04:24 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <E0x8MDC-0000oY-00@heaton.cl.cam.ac.uk>
Rendered body type: text/plain

This winter we are planning on equipping two gliders with MIC-E and setting up a base station with APRS at the gliding club. We expect to use a gliding frequency (probably 129.975). The idea is you get the system working smoothly for the 98 soaring season.

This will be the first time in the UK that glider position information is relayed in real time back to the base, which is likely to have a significant impact on the sport. A trial using different technology was tried at a recent competition in Finland (they used the cellular phone network).

Glider racing involves a lot of route decision making around the set task, and over the past couple of years it has become common to review pilots flight logs from their GPS loggers a couple of hours after the flight has completed. We have software which allows separate logs to be replayed together over a map, giving us a historical view of the race (we call this 'maggot racing'). Obviously, this logger playback is a somewhat limited version of the real-time 'maggot race' which should be possible with MIC-E and APRS. The fact that we even enjoy looking at historical information means that the requirement is presumably there for a real-time version.

If we get the system working, we'll publicise the results among the gliding community, and hope for help as we go along from this mailgroup.

If I email or phone TAPR with a VISA card, is the likely to be any holdup getting the bits?

We have plenty of PC skills - is WinAPRS the best choice?

How do you get altitude into the MIC-E? Maybe at first we'd do without.

Cheers,
Ian.

8. [MIC-E:1362] Re: mic-e + APRS trial for Gliders at Cambridge, England

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 9 Sep 1997 12:53:08 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970909133420.11207M-100000@arctic>
Rendered body type: text/plain

Since in the UK, your CB radios are FM, have you considered using them as
a data link? It would unclutter the 129.975 AM for needed voice, and
allow you to use a more frequent transmit period..... The MIC-E is still
the best idea, since it has front panel controls for setting the RATE,
MESSAGE, and PATH...

On Tue, 9 Sep 1997, Ian Lewis wrote:

>
> This winter we are planning on equipping two gliders with MIC-E
> and setting up a base station with APRS at the gliding club. We
> expect to use a gliding frequency (probably 129.975). The idea is
> you get the system working smoothly for the 98 soaring season.
>
> This will be the first time in the UK that glider position information is
> relayed in real time back to the base, which is likely to have a significant
> impact on the sport. A trial using different technology was tried
> at a recent competition in Finland (they used the cellular phone network).
>
> Glider racing involves a lot of route decision
> making around the set task, and over the past couple of years it has
> become common to review pilots flight logs from their GPS loggers a
> couple of hours after the flight has completed. We have software which
> allows separate logs to be replayed together over a map, giving us a
> historical view of the race (we call this 'maggot racing'). Obviously,
> this logger playback is a somewhat limited version of the real-time
> 'maggot race' which should be possible with MIC-E and APRS. The fact that
> we even enjoy looking at historical information means that the requirement
> is presumably there for a real-time version.
>
> If we get the system working, we'll publicise the results among the
> gliding community, and hope for help as we go along from this mailgroup.
>
> If I email or phone TAPR with a VISA card, is the likely to be any
> holdup getting the bits?
>
> We have plenty of PC skills - is WinAPRS the best choice?
>
> How do you get altitude into the MIC-E? Maybe at first we'd do without.
>
> Cheers,
> Ian.
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

9. [MIC-E:1363] need to add hang time to mice

From: "Weis, Scott" <kb2ear@orn.com>
Date: Thu, 11 Sep 1997 00:25:50 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <c=US%a=_%p=Overleaf%l=PC-970911052320Z-3@pc.kb2ear.overleaf.com>
Rendered body type: text/plain

Hi, The local repeter has an RC-850 controler on it which puts a delay
on the audio. When you unkey the radio the audio from the delay is cut
off and there is no sq tail. Great feature but it also cuts off the end
of mic-e packets going over it thus no decode. There is no way to access

the repeter site to put equipment up there so I have to grab audio off
the output. Anyway what I need to know is there any way to get the
mic-e to hold the ptt line for 50ms or so to make sure the data is thru
the delay before the delay kills it?

Thanks,
Scott
kb2ear@orn.com

10. [MIC-E:1364] Re: need to add hang time to mice

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 11 Sep 1997 09:08:05 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.970911095847.20135H-100000@arctic>
Rendered body type: text/plain

No. My guess would be to find what value of capacitor on the output of
the Mic-E would hold the PTT the additional time needed. It has to be
placed properly so that it holds down the output PTT and not the input PTT
, of course...
 On Thu, 11 Sep 1997, Weis, Scott wrote:

> Hi, The local repeter has an RC-850 controler on it which puts a delay
> on the audio. When you unkey the radio the audio from the delay is cut
> off and there is no sq tail. Great feature but it also cuts off the end
> of mic-e packets going over it thus no decode. There is no way to access
> the repeter site to put equipment up there so I have to grab audio off
> the output. Anyway what I need to know is there any way to get the
> mic-e to hold the ptt line for 50ms or so to make sure the data is thru
> the delay before the delay kills it?
>
>
> Thanks,
> Scott
> kb2ear@orn.com
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

11. [MIC-E:1365] Re: MIC-E digest 207

From: dap_idc@juno.com
Date: Fri, 12 Sep 1997 09:28:09 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970912.071536.4950.0.dap_idc@juno.com>
Rendered body type: text/plain

Would someone please take me off the mailing list!!!

I have tried everything suggested.

DAP

12. [MIC-E:1366] mic-e

From: ww0e@juno.com
Date: Sun, 21 Sep 1997 15:54:04 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <19970921.154609.7350.1.ww0e@juno.com>
Rendered body type: text/plain

I would like to hear from anyone using the TAPR- APRS -
MIC-E unit.   thanks   de JERRY - WW0E   ww0e@juno.com

13. [MIC-E:1367] PIC shipment for BETA units?

From: WCovey@aol.com
Date: Sun, 21 Sep 1997 17:35:49 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <970921183006_319477514@emout20.mail.aol.com>
Rendered body type: text/plain

Hello to all on the MIC-E sig.

I have been waiting several months now for my two PIC's to upgrade the two beta units I have. I ordered directly from Dorothy at TAPR at least 3 months ago. In fact I ordered them when I ordered the production unit, which was around Dayton time. Are the PIC's going to be shipped soon. What's the holdup? Thanks , Bill W1GTT

14. [MIC-E:1368] RE: mic-e

From: myoung <myoung@neo.lrun.com>
Date: Sun, 21 Sep 1997 22:09:31 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Chameleon.874897448.myoung@slowclone.neo.lrun.com>
Rendered body type: text/plain

Jerry, I've used my beta MicE unit in my car and plane. It works great! What do you wanna know?

Mike

Name: Mike Young, WB8CXO
E-mail: myoung <myoung@neo.lrun.com>
Date: 9/21/97
Time: 11:02:48 PM
---

15. [MIC-E:1369] Mic-E for sale

From: Wally Foster <wfoster@hsc.usc.edu>
Date: Mon, 22 Sep 1997 07:08:58 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34265E42.32CF@hsc.usc.edu>
Rendered body type: text/plain

I have an original (Dayton) unit that has been assembled that I would like to sell as it doesn't meet my needs anymore. Got a new laptop, so will be using it in the car with TNC and radio. Wally Foster N6CDJ wfoster@hsc.usc.edu

16. [MIC-E:1370] Re: Mic-E for sale

From: "Jim Duncan, KU0G" <ku0g@kcaprs.org>
Date: Mon, 22 Sep 1997 08:41:05 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34267562.F37FB263@kcaprs.org>
Rendered body type: text/plain

Wally Foster wrote:
>
> I have an original (Dayton) unit that has been assembled that I would
> like to sell as it doesn't meet my needs anymore. Got a new laptop, so
> will be using it in the car with TNC and radio. Wally Foster N6CDJ
> wfoster@hsc.usc.edu

How much?

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
Rogue Squadron Storm Chasers
EMail: ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

17. [MIC-E:1371] Re: mic-e

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 22 Sep 1997 09:18:57 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.874937559.alan@watsol>
Rendered body type: text/plain

> I would like to hear from anyone using the TAPR- APRS -
> MIC-E unit.   thanks   de JERRY - WW0E   ww0e@juno.com
>

Hello,

See: http://www.weca.org/wecagram/9707/wecagram.html#APRS

73 de Alan N2YGK

18. [MIC-E:1372] Re: mic-e user.

From: John Dalin <ka0myg@sparc.isl.net>
Date: Tue, 23 Sep 1997 20:47:41 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34288AFF.2D13@sparc.isl.net>
Rendered body type: text/plain

Jerry,

I use the MIC-E w/internal GPS with my Yaesu FT51R and speaker/mic.

19. [MIC-E:1373] PIC's for beta units?

From: WCovey@aol.com
Date: Wed, 24 Sep 1997 13:20:58 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <970924141405_1586888081@emout09.mail.aol.com>
Rendered body type: text/plain

Hello to all on the MIC-E sig.

I have been waiting several months now for my two PIC's to upgrade the two
beta units I have. I ordered directly from Dorothy at TAPR at least 3 months
ago. In fact I ordered them when I ordered the production unit, which was
around Dayton time. Are the PIC's going to be shipped soon. What's the
holdup? Thanks , Bill W1GTT

20. [MIC-E:1374] Re: PIC's for beta units?

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 24 Sep 1997 13:43:53 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v0311070eb04f0c506a10@[208.134.134.40]>
Rendered body type: text/plain

We expect to get two with the next shipment from Gwyn. If you want, since
we haven't charged you yet -- we can cancel the order and you can order
from Will directly. Might be easier.

We did the single PIC thing for the beta testers to try to help -- but like
all things sometime helping doesn't work out very well.

Cheers - Greg

>Hello to all on the MIC-E sig.
>
>I have been waiting several months now for my two PIC's to upgrade the two
>beta units I have. I ordered directly from Dorothy at TAPR at least 3 months
>ago. In fact I ordered them when I ordered the production unit, which was
>around Dayton time. Are the PIC's going to be shipped soon. What's the
>holdup? Thanks , Bill W1GTT

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

    "Before you become too entranced with gorgeous gadgets
     and mesmerizing video displays, let me remind you that
     information is not knowledge, knowledge is not wisdom,
     and wisdom is not foresight. Each grows out of the other
     and we need them all."   -Arthur C. Clarke

21. [MIC-E:1375] HT interfacing.

From: John Dalin <ka0myg@sparc.isl.net>
Date: Wed, 24 Sep 1997 21:23:29 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3429E532.5ACB@sparc.isl.net>
Rendered body type: text/plain

Hi all,

Is there an area at the TAPR www site where I can find schematics for
interfacing HT's with speaker/mics to the mic-e? I have built a circuit
but I feel it could use a lot of improvement. I would like to see how

others have done this. Hopefully I havn't missed something obvious.
Thanks. John (ka0myg).

22. [MIC-E:1379] 1997 ARRL and TAPR DCC Reminder

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 30 Sep 1997 15:38:30 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110717b0570c981bd4@[208.134.134.40]>
Rendered body type: text/plain

Don't forget that the 16th Annual ARRL and TAPR Digital Communications
Conference is in just a few days!

It is not to late to make the conference. Registration is already at a
high and we expect a really great conference! Hope to see you in Baltimore.

1997 ARRL and TAPR Digital Communications Conference
October 10-12, 1997
Baltimore, Maryland (minutes from BWI airport)

Main Web Page -- http://www.tapr.org/dcc
Tentative Schedule -- http://www.tapr.org/tapr/html/dcc97schedule.html
Proceedings Abstracts -- http://www.tapr.org/tapr/html/cnc16.html
Local Attractions -- http://www.tapr.org/tapr/html/dcc97_attractions.html

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The 1997 ARRL and TAPR Digital Communications Conference will be held on
October 10-12, 1997 in Baltimore, Maryland. This years conference location
is just minutes away from the BWI Airport.

 What can you expect during the 1997 ARRL and TAPR Digital Communications
Conference ?
* A full day of papers and breakouts on Saturday for the beginner to the
advanced amateur digital enthusiast.

* Three workshops
        o Friday (1pm - 8pm) - APRS Symposium (http://www.aprs.net/dcc/)
        o Friday (4pm - 8pm) - Seminar on RF Basics for Computer Weenies
        o Sunday (8:30am - 1:30pm) - Seminar on Spread Spectrum system
Design and Theory

* The second annual Student paper session.

* A banquet with a Special Guest Speaker Yutaka Sakurai, JF1LZQ who is Vice
President of Japan's Packet Radio User's Group (PRUG). His talk is
entitled, "Japan's PRUG: A look at its history and a view to the future".
He will discuss the history of the PRUG from its early beginnings in the
mid-80's and track its development to today. He will also discuss some of
PRUG's current projects and its goals for the future.

* SIGs (Special Interest Groups) on Saturday following the banquet.

* Informal get-togethers throughout the weekend.

* TAPR Membership Meeting

Special Symposiums/Seminars

In addition to the presentation of papers on Saturday, three
symposiums/seminars will be held before and after the conference. These
sessions are provided to allow those with additional time and interest to
make the most of the Digital Communications Conference. For those that
might have interest in just a symposium or seminar, registration for the
conference is not necessary to register and attend one or more of the
symposiums and seminars. This allows maximum flexibility for those that
might want to participate during the Digital Communications Conference, but
do not have an entire weekend to devote to the event.

A full day symposium on Friday covering APRS will be conducted by Bob
Bruninga, WB4APR (father of APRS) Keith Sproul, WU2Z, Mark Sproul, KB2ICI
(developers of Mac and Windows APRS), Steve Dimse, K4HG (developer of
javAPRS), and other nationally known APRS leaders. Join this group for the
afternoon and evening for in depth discussions and presentations on the
current and future status of APRS. This is an unique opportunity to gain
insight into this fast growing digital aspect of amateur operations that

combines computers, packet radio, and GPS (Global Positioning System). See http://www.aprs.net/dcc/ for schedule.

Starting late Friday afternoon a half-day seminar entitled "RF Basics for Computer Weenies: Helping the RF-challenged get the most out of the new high-speed wireless toys" presented by Mike Cheponis, K3MC. The seminar will focus on such topic as basic antenna types and their characteristics, comparison of feedlines and connector types, propagation basics (calculation of path loss, multipath effects, fresnel zones, etc), weatherproofing, lightning protection, filters, basic RF measurements, and other issues related to maintaining radio equipment on the UHF/SHF bands. This seminar will be starting late enough in the afternoon on Friday to allow those flying on that day to attend the seminar.

On Sunday morning, Dewayne Hendricks, WA8DZP, Phil Karn, KA9Q, and Tom McDermott, N5EG, will conduct a seminar focusing on "Spread Spectrum System Design and Theory." All three presenters are well known for their work in various areas of amateur digital communications and this 5 hour seminar should be an excellent opportunity to learn about the design and theory of spread spectrum systems. This seminar is a follow up to the past two seminars of PCS technology by Dewayne with a new focus on system design.

Airports

* The closest airport is Balitmore/Washington International (BWI)
* For those flying internationally or located on the East coast, check flights into
    - o Dulles International or
    - o Washington National Airport
* Bus/rail service from either Dulles or Washington to BWI is available, but be sure to check on this before arriving.

Hotel Information

Conference presentations, meetings, and workshops will be held at the Holiday Inn BWI Airport. DCC special rooms rates are $89 per night. When making reservations with the hotel, be sure to indicate you are attending the ARRL and TAPR DCC conference. The hotel provides transportation to and from BWI Airport, Amtrak/MARC rail station, and the local Baltimore Light Rail. You should contact the hotel to arrange transportation.

Holiday Inn BWI Airport (conference hotel)
890 Elkridge Landing Rd, Linthicum, MD, 21090
(410) 859-8400, Fax (410) 684-6778

3912.00N and 07641.34W

Directions to Conference

Coming from Baltimore Metro Area:
Follow MD-295 SOUTH towards BWI airport
Take W. NURSERY Rd exit
LEFT at the list at the end of the exit
RIGHT at the 3rd light, WINERSON Rd
LEFT at the 1st light, ELKRIDGE LANDING Rd
Holiday Inn BWI will be 1/2 mile on right.

Coming from Annapolis:
Follow I-97 NORTH/RT. 3 NORTH
Take DORSEY Rd Exit (rt 176 West)
RIGHT onto AVIATION Blvd (Rt 162)
Pass BWI Satellite parking
Follow signs to BWI Airport
RIGHT onto ELKRIDGE LANDING Rd
Holiday Inn BWI will be 1/2 mile on left.

Coming from Washington, DC:
Follow I-95 NORTH or MD-295 NORTH towards Baltimore
Take I-195 EAST towards BWI airport
Take EXIT 1A (Rt. 170 North)
LEFT at 2nd light, ELKRIDGE LANDING Rd
Holiday Inn BWI will be 1/2 mile on left.

Coming from the North:
Follow I-95 SOUTH or NEW JERSEY TURNPIKE SOUTH to I-95 South
Take I-95 SOUTH to I-195 EAST/AIRPORT to
Rt. 170 NORTH LINTHICUM to 2nd light,
turn left onto ELKRIDGE LANDING Rd
Holiday Inn BWI will be 1 mile on left.

Local Repeater Talk-In
Maryland FM Association WA3DZD repeater network has given premission to use their system for the talk-in on Saturday morning, October 11, 1997 and for use during the conference weekend. The frequecies are:

* 146.76 out, 146.16 in
* 224.76 out, 223.16 in
* 444.00 out, 449.00 in

The talk-in station will be using the call sign W3NSA.

Many thanks to the Maryland FM Association.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 940-383-0000
e-mail: tapr@tapr.org ftp: ftp.tapr.org web: <http://www.tapr.org/>

October 1997

Original source file: mic-e.9710
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9710

1. [MIC-E:1380] GPS30PC Group Purchase Update

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 1 Oct 1997 14:09:23 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <v03110730b05845d4c09d@[208.134.134.40]>
Rendered body type: text/plain

Hello everyone, a brief update on the GPS30PC group purchase.

We are expecting the units to arrive from Garmin end of this week and will
begin to ship the 250 ordered units out starting soon after.

Support for the GPS30PC will be done using the TACGPS list.

See everyone at the DCC in 10 days or so!
http://www.tapr.org/dcc

Cheers - Greg Jones, WD5IVD

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

2. [MIC-E:1381] Interfacing Motorola Oncore VP GPS Engine to Mic-E

From: "Jeffrey Komori" <jeffk@jeffk.com>
Date: Fri, 24 Oct 1997 14:02:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19971024115507.0084c960@jeffk.com>
Rendered body type: text/plain

Hi Folks,

I'm in the process of putting together a half dozen Mic-E's with Motorola
Oncore VP GPS engines. I can't figure out how to program the GPS engine to
go into NMEA format since the interface has data only going from the GPS
engine to the Mic-E. Also, from what I can see, the Motorola Oncore VP GPS
engine only interfaces with TTL instead of RS232. While this is not a
problem for GPS engine to Mic-E; how do I connect to the GPS to tell it to
go into NMEA format? Any help would be appreciated.

Regards,
Jeffrey Komori

_____

264 North Whisman Road #16,   Mountain View,   CA   94043-3930

MCSE   KH6JUZ   PP-ASEL

mailto:jeffk@jeffk.com   http://www.jeffk.com/jeffk.html

_____

                    KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/ B-to-V Challenge Cup Relay, APRS Support
http://www.esperanto.org/   Esperanto - The International Language
http://www.hawastsoc.org/   Hawaiian Astronomical Society
http://www.hpcug.org/   Hawaii PC Users Group
http://www.jeffk.com/   Jeffrey Komori's Info-Superhighway Reststop
http://www.pclg.org/   Presbyterian Church of Los Gatos
http://www.pdarrl.org/   Pacific Division of the ARRL
http://www.recdotaviation.org/ Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/   Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/   Rob Scott - The Unix Guy
http://www.smxgig.org/   The Annual AVSIG Santa Maria (SMX) Fly-in

_____

3. [MIC-E:1382] Trying to get a Mic-E to work, any help would be appreciated.

From: wb5kcm@juno.com
Date: Fri, 24 Oct 1997 19:55:37 -0500 (CDT)

To: mic-e@tapr.org
Message-ID: <19971024.194919.11446.0.wb5kcm@juno.com>
Rendered body type: text/plain

I have a Mic-E system with a built in trimble GPS (the small pc board
that mounts inside). The problem is it seems no matter how I configure
the mic-e it will not send out any Position packets, I can see my call
sign and the beacon text but the position part of the packet will read
something like POPPPOPP|||||A or sometimes it will show R93Y1P-3:|{&&|||A
does this make any sense to anyone? Is it possible that my KPC-3 is not
able to copy the position information? Possibly the NMEA data from the
Trimble GPS PC Board is corrupted? Not sure whats going on..Any ideas are
welcome..
Thanks, de Randy, WB5KCM...

4. [MIC-E:1383] RE: Trying to get a Mic-E to work, any help would be appreciated.

From: "Weis, Scott" <kb2ear@orn.com>
Date: Fri, 24 Oct 1997 20:22:42 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <c=US%a=_%p=Overleaf%l=PC-971025012119Z-3@pc.kb2ear.overleaf.com>
Rendered body type: text/plain

That looks like a good packet from a mice to me...

You need a version of APRS to decode this..

73,
>--
>Scott R. Weis KB2EAR, EMT-D
>Kendall Park First Aid & Rescue Squad
>Internet: kb2ear@bellatlantic.net
>Snail Mail: 10 Palmer Rd., Kendall Park, NJ, 08824-1228
>WWW: http://kb2ear.orn.com/
>Phone: +1 732 297 0469
 --
 Pursuant to US Code, Title 47, Chapter 5, Subchapter II, '227,
 any and all nonsolicited commercial E-mail sent to this address
 is subject to a download and archival fee in the amount of $500
 US. E-mailing denotes acceptance of these terms.

>----------
>From: wb5kcm@juno.com[SMTP:wb5kcm@juno.com]
>Reply To: mic-e@tapr.org
>Sent: Friday, October 24, 1997 8:55 PM
>To: mic-e@tapr.org
>Subject: [MIC-E:1382] Trying to get a Mic-E to work, any help would be
>appreciated.
>
>I have a Mic-E system with a built in trimble GPS (the small pc board
>that mounts inside). The problem is it seems no matter how I configure
>the mic-e it will not send out any Position packets, I can see my call
>sign and the beacon text but the position part of the packet will read
>something like POPPPOPP|||||A or sometimes it will show R93Y1P-3:|{&&|||A
>does this make any sense to anyone? Is it possible that my KPC-3 is not
>able to copy the position information? Possibly the NMEA data from the
>Trimble GPS PC Board is corrupted? Not sure whats going on..Any ideas are
>welcome..
>Thanks, de Randy, WB5KCM...
>
>

5. [MIC-E:1384] Re: Trying to get a Mic-E to work, any help would be appreciated.

From: Jim Duncan <ku0g@kcaprs.org>
Date: Fri, 24 Oct 1997 21:38:33 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <34515B7C.6E74D07@kcaprs.org>
Rendered body type: text/plain

What you are seeing is the output of the MIC-E when the GPS is putting
out null data (no valide fix). Better check your GPS antenna
connection! (you DO have the GPS antenna in CLEAR view of the sky,
right?) I'm not trying to call you stupid, so don't read anything into
the following:

1) Tell me about your antenna connection to the GPS engine first.

2) If you take the GPS engine out of the MIC-E and connect it to a
serial port on your computer do you get GPS data?

3) Is the GPS engine getting power?

I've found that the engines are great things but you really have to be
very careful in the setup/configuration...

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group
Rogue Squadron Storm Chasers
EMail: ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

6. [MIC-E:1385] Re: Trying to get a Mic-E to work, any help would

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Fri, 24 Oct 1997 23:31:12 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971025002428.006a84e4@mail.mosquito.com>
Rendered body type: text/plain

At 07:55 PM 10/24/97 -0500, Randy WB5KCM wrote:

>I have a Mic-E system with a built in trimble GPS (the small pc board
>that mounts inside). The problem is it seems no matter how I configure
>the mic-e it will not send out any Position packets, I can see my call
>sign and the beacon text but the position part of the packet will read
>something like POPPPOPP|||||A or sometimes it will show R93Y1P-3:|{&&|||A
>does this make any sense to anyone? Is it possible that my KPC-3 is not
>able to copy the position information? Possibly the NMEA data from the
>Trimble GPS PC Board is corrupted? Not sure whats going on..Any ideas are
>welcome..
>Thanks, de Randy, WB5KCM...

W2HOB RESPONSE: Yep, it's compressed data... works fine. If you see PPPPPP
then the GPS hasn't locked on any birds and isn't outputting posit info.
The R93YIP etc etc should be good posit info. Of course, you need a real
recent version of APRSdos like 796... I forget the WinAPRS version but
2.0.6 is current. Early versions won't decode the compressed data! It works!

Have fun es 73 de Boyd W2HOB

7. [MIC-E:1386] Re: Trying to get a Mic-E to work, any help would be appreciated.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 25 Oct 1997 06:17:37 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.3.96.971025071507.14416A-100000@arctic>
Rendered body type: text/plain

On Fri, 24 Oct 1997 wb5kcm@juno.com wrote:

> I have a Mic-E system with a built in trimble GPS (the small pc board
> that mounts inside). The problem is it seems no matter how I configure
> the mic-e it will not send out any Position packets, I can see my call
> sign and the beacon text but the position part of the packet will read
> something like POPPPOPP|||||A or sometimes it will show R93Y1P-3:|{&&|||A

APRSdos REPLY/COMMENT: That IS your position report. The MIC-E uses a
compressed format.

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

8. [MIC-E:1387] Re: Trying to get a Mic-E to work, any help would

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 25 Oct 1997 06:38:14 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.3.96.971025073207.14887C-100000@arctic>
Rendered body type: text/plain

On Fri, 24 Oct 1997, Boyd Prestwood wrote:

> The R93YIP etc etc should be good posit info. Of course, you need a real

> recent version of APRSdos like 796... I forget the WinAPRS version but

APRSdos REPLY/COMMENT: Nope, APRSdos has decoded the Mic-e for over a
year. SHould go back to 74 or so, but you are right, that everyone should
upgrade to 796 to get all the WX and new formats ...   thanks for the
plug...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

9. [MIC-E:1388] MIC-E STatus

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 27 Oct 1997 13:41:13 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <v03110700b07a9c9860d1@[208.134.134.40]>
Rendered body type: text/plain

Just to let those on the SIG know -- - Dorothy has MIC-E units available at
the office and we have another 100 on order with PacComm for delivery the
first part of the year. This should mean we have units in stock for
everyone who wants one.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

10. [MIC-E:1390] Mic-E assembly

From: glenn miller <gmiller@cci-29palms.com>
Date: Thu, 30 Oct 1997 17:31:33 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199710310024.QAA06018@cci.cci-29palms.com>
Rendered body type: text/plain

I recently received my Mic-E unit/kit and have a problem getting the receive
audio and gps jacks on the rear of the unit to seat flush with the back
cover. This prevents the plugs from seating properly. The serial jack sits
flush, but the others do not.
Has anyone else had this problem ? If so, how did you resolve it ?

Thanks and 73

Glenn Miller N6GIW
gmiller@cci-29palms.com
Glenn Miller
PO Box 12
Joshua Tree Ca 92252
760 364 3957/364 2466 fax

11. [MIC-E:1391] Re: Mic-E assembly

From: Mark Humphrey <mark@y100.com>
Date: Thu, 30 Oct 1997 18:43:20 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34592953.75DBC423@y100.com>
Rendered body type: text/plain

glenn miller wrote:

> I recently received my Mic-E unit/kit and have a problem getting the receive
> audio and gps jacks on the rear of the unit to seat flush with the back
> cover. This prevents the plugs from seating properly. The serial jack sits
> flush, but the others do not.
> Has anyone else had this problem ? If so, how did you resolve it ?

I had the same problem -- there is a slight misalignment between the jacks and
the holes punched in that panel... I had to ream and file to get it together.

Mark

12. [MIC-E:1392] mic-e kit questions

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Thu, 30 Oct 1997 21:44:39 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199710310343.VAA27302@vuse.vanderbilt.edu>
Rendered body type: text/plain

Today I received my mic-e kit from TAPR. I have a couple of questions.

The manual says the receive (RX) audio must be squelched. Unfortunately,
the radio I plan to use has unsquelched audio at the mic connector. The
work around is to use the speaker output. This will mute the speaker, an
incovenience to say the least. Of course, an external speaker or jumpering
the speaker output jack on the radio could solve the problem. Is my
interpretation of the instructions correct?

RX audio may only be used to determine quiet time for AUTO operation. (That
may be why it must be squelched.) If so, then will the unit work properly
in the MANUAL mode if the RX audio is unsquelched, or not present?

TNX and 73

Gene W4IMT

13. [MIC-E:1393] Re: mic-e kit questions

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Thu, 30 Oct 1997 22:10:38 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971030230517.0069a0f4@mail.mosquito.com>
Rendered body type: text/plain

At 09:44 PM 10/30/97 -0600, you wrote:
>Today I received my mic-e kit from TAPR. I have a couple of questions.
>
>The manual says the receive (RX) audio must be squelched. Unfortunately,
>the radio I plan to use has unsquelched audio at the mic connector. The
>work around is to use the speaker output. This will mute the speaker, an
>incovenience to say the least. Of course, an external speaker or jumpering
>the speaker output jack on the radio could solve the problem. Is my
>interpretation of the instructions correct?
>
>RX audio may only be used to determine quiet time for AUTO operation. (That
>may be why it must be squelched.) If so, then will the unit work properly
>in the MANUAL mode if the RX audio is unsquelched, or not present?

W2HOB RESPONSE: Hi Gene...only squelched audio may be used in either
"mode". Audio is rectified and made into logic. That logic is used to
condition a "hold-off" lead to the MIM in the Mic-E. That will cause the
Mic-E to "hold-off" transmitting a packet until the channel is quiet.

The Mic-E can't actually process a received packet... no smarts... it is a
transmit-only "TNC" of sorts. Only noise, speech, or any type of audio
will cause the MIM to politely wait to transmit.

Hope this helps... it's really confusing, I know, but read the docs that
come with the APRSdos version and then read them again! Keep asking and
it'll all come to you after a while!

Good luck es 73 de Boyd W2HOB
w2hob@mosquito.com

14. [MIC-E:1394] Re: mic-e kit questions

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 31 Oct 1997 10:50:25 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971031114252.18796D-100000@arctic>
Rendered body type: text/plain

On Thu, 30 Oct 1997, Eugene Pentecost wrote:

> Today I received my mic-e kit from TAPR. I have a couple of questions.
>
> RX audio may only be used to determine quiet time for AUTO operation. (That
> may be why it must be squelched.) If so, then will the unit work properly
> in the MANUAL mode if the RX audio is unsquelched, or not present?

APRSdos REPLY/COMMENT: It is only needed for collision avoidance. In
most cases for a tracker, that wont matter much..

Reply mail addr: wb4apr@amsat.org

US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

15. [MIC-E:1395] Re: mic-e kit questions

From: Larry Mollica <larry@soma.net>
Date: Fri, 31 Oct 1997 21:07:42 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <l03110700b0804c3c779b@[181.100.100.101]>
Rendered body type: text/plain

I was faced with a simlilar problem; I wanted to be able to use the radio
speaker to monitor without having to rig up a bunch of external junk. I
wasn't able to find a spot for squelched audio that wasn't affected by the
rx volume pot on my old Icom IC-22 (I have no schematic).

I ended up using the radio's receive "busy" lamp as a sort of COR source.
I ran the "hot" side of the lamp, which gets +12 or so when the squelch is
open, through a 100k pull-up resistor to the cathode of D7 (base of Q1) in
the Mic-E.
Left JP2 open. The pull-up resistor is terminated on (unused) pin 10 of
JP11 personality header socket, so the Mic-e can easily be configured for
audio-detect on a different radio if needed.
End result is the Mic-E RX-detect is directly controlled by the radio's
squelch circuit, instead of speaker audio.

In the case of a radio with a lamp switched by ground, rather than +Vcc, it
could probably be connected through a diode to the collector of Q1 to
achive the same result.

Anyway, don't know if that does you a bit of good, it works out very well
for me.

Good luck
Larry M.
WA6FSJ

Eugene Pentecost writes:
>The manual says the receive (RX) audio must be squelched. Unfortunately,
>the radio I plan to use has unsquelched audio at the mic connector. The
>work around is to use the speaker output. This will mute the speaker, an
>incovenience to say the least. Of course, an external speaker or jumpering
>the speaker output jack on the radio could solve the problem. Is my
>interpretation of the instructions correct?

November 1997

Original source file: mic-e.9711
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9711

1. [MIC-E:1396] Mic-E

From: glenn miller <gmiller@cci-29palms.com>
Date: Sat, 1 Nov 1997 12:09:21 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711011903.LAA02957@cci.cci-29palms.com>
Rendered body type: text/plain

Hello all. I have just finished assembly and testing of my ne Mic-E unit. It
is working fine. I do have a couple of questions:

How do they get all of the position information into a packet that consists of
s4qswy-2/1:'.151 m/

Amazing.

I also tested the emergency/alarm feature of my APRS. I set the Mic-E to
emergency and it activated the alarm on my APRS screen. How do you turn that
alarm off ?????

One thing of note for those who have not begun testing yet: When your
computer is connected to the unit it will not receive information from your
GPS unit. (Not an external one anyway).

Our local club is going to add a detector unit to the repeater to link to
145.79 for the local Mic-E users. There is on of me so far with the
possibility of many more to follow (I hope)

73

Glenn N6GIW
Glenn E. Miller N6GIW
PO Box 12
Joshua Tree Ca 92252-0012
N6GIW @ W6QZ.#SCA.CA.USA.NA
gmiller@cci-29palms.com
760-364-3957
760-364-2466 fax 24 hours

2. [MIC-E:1397] Re: Mic-E

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 1 Nov 1997 14:41:03 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971101153227.19485A-100000@arctic>
Rendered body type: text/plain

On Sat, 1 Nov 1997, glenn miller wrote:
> Hello all. I have just finished assembly and testing of my ne Mic-E unit. It
> is working fine. I do have a couple of questions:
>
> I also tested the emergency/alarm feature of my APRS. I set the Mic-E to
> emergency and it activated the alarm on my APRS screen. How do you turn that
> alarm off ?????

APRSdos REPLY/COMMENT: if you have done nothing else, then hit ENTER
ENTER. The first one hooks it and the second one clears the alarm. If
you ahve moved the cursor or done anything else, then go to the P-LIST and
hook it. THen hit A to cancel the alarm

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

3. [MIC-E:1398] Re: Mic-E

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sat, 1 Nov 1997 15:05:27 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <345B97E4.DF7577D5@amsat.org>
Rendered body type: text/plain

It's all in the docs.

Ron

glenn miller wrote:
..
>
> How do they get all of the position information into a packet that consists of
> s4qswy-2/1:'.151 m/
>
> Amazing.

--
Ron W5RKN

also:
rparsons@bga.com

4. [MIC-E:1399] Re: Mic-E

From: glenn miller <gmiller@cci-29palms.com>
Date: Sat, 1 Nov 1997 15:12:33 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711012206.OAA04576@cci.cci-29palms.com>
Rendered body type: text/plain

Thanks Bob. Now I have to find out why it's not putting the digipeaters in
the path. I set it up in the softward and chose the path on the front dial,
but it's just sending out a straight simplex transmission. I'll get it soon
I hope.

Glenn N6GIW

At 02:41 PM 11/1/97 -0600, you wrote:
>On Sat, 1 Nov 1997, glenn miller wrote:
>> Hello all. I have just finished assembly and testing of my ne Mic-E unit. It
>> is working fine. I do have a couple of questions:
>>
>> I also tested the emergency/alarm feature of my APRS. I set the Mic-E to
>> emergency and it activated the alarm on my APRS screen. How do you turn that
>> alarm off ?????
>
>APRSdos REPLY/COMMENT: if you have done nothing else, then hit ENTER
>ENTER. The first one hooks it and the second one clears the alarm. If
>you ahve moved the cursor or done anything else, then go to the P-LIST and
>hook it. THen hit A to cancel the alarm
>
>
>Reply mail addr: wb4apr@amsat.org
>US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
>See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
>See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
Glenn E. Miller N6GIW
PO Box 12
Joshua Tree Ca 92252-0012
N6GIW @ W6QZ.#SCA.CA.USA.NA
gmiller@cci-29palms.com
760-364-3957
760-364-2466 fax 24 hours

5. [MIC-E:1400] Re: Mic-E

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 3 Nov 1997 10:04:03 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.878572970.alan@watsol>
Rendered body type: text/plain

>How do they get all of the position information into a packet ...

See the appendix to the Mic-E manual that describes the over-the-air
protocol. It's also in the APRSdos README/MIC-E.TXT I believe and at
http://www.tapr.org/tapr/html/mic-e.html

73 de Alan N2YGK

6. [MIC-E:1401] TAPR/Garmen GPS-30.

From: wb5kcm@juno.com
Date: Mon, 3 Nov 1997 20:05:38 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971103.194054.13318.0.wb5kcm@juno.com>
Rendered body type: text/plain

I recently obtained one of the Garmen GPS-30 units from TPRS. It did not work in the original configuration. It was not receiving the satellites. I was watching the NMEA data from the DB9 connector using a nmea reader program and small interface unit. The plastic case was removed exposing the GPS-30PC engine and antenna. Removed the antenna connection from the GPS-30 engine and checked for the 5 volt supply for an active antenna. There was no 5 volts. Opened the metal cover near the antenna connection, this is where the RF components are enclosed. Traced along the PC Board from the center pin back and noticed a small solder pad near where the antenna line terminates. Found the 5 volts on this pad. Jumpered this over to the antenna side solder pad using a very small wire. Possibly the factory did not connect this wire in some of the units. Now reconnected the antenna and the GPS-30 immediately started receiving satellites and took a good fix. Replaced the metal cover on the RF box. If anyone else has purchased one of these units and its not working, may want to try this fix. DO THIS AT YOUR OWN RISK!...good luck...

Randy Perkins (WB5KCM)
wb5kcm@juno.com

7. [MIC-E:1402] Interfacing Motorola Oncore VP GPS Engine to Mic-E

From: "Jeffrey Komori" <jeffk@jeffk.com>
Date: Fri, 7 Nov 1997 11:49:26 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19971107093549.00862520@jeffk.com>
Rendered body type: text/plain

Hi Folks, (I'm sending this request again since I received no response the first time)

I'm in the process of putting together a half dozen Mic-E's with Motorola Oncore VP GPS engines. I can't figure out how to program the GPS engine to go into NMEA format since the interface has data only going from the GPS engine to the Mic-E. Also, from what I can see, the Motorola Oncore VP GPS engine only interfaces with TTL instead of RS232. While this is not a problem for GPS engine to Mic-E; how do I connect to the GPS to tell it to go into NMEA format? Any help would be appreciated.

Regards,
Jeffrey Komori

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeffrey Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria (SMX) Fly-in

---

8. [MIC-E:1403] RE: Interfacing Motorola Oncore VP GPS Engine to Mic-E

From: Doug Hogarth <DougHo@gte.net>
Date: Fri, 7 Nov 1997 13:08:06 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <01BCEB6D.38681880.DougHo@gte.net>
Rendered body type: text/plain

Hmm, I thought that I responded. I can tell you the command(s) to send the boards to switch to NMEA and output some sentences (which they should store permanently for future resets), but I can't help you hook up the hardware transmit line.

On Friday, November 07, 1997 9:49 AM, Jeffrey Komori [SMTP:jeffk@jeffk.com] wrote:
> Hi Folks, (I'm sending this request again since I received no response the
> first time)
>
> I'm in the process of putting together a half dozen Mic-E's with Motorola
> Oncore VP GPS engines. I can't figure out how to program the GPS engine to
> go into NMEA format since the interface has data only going from the GPS
> engine to the Mic-E. Also, from what I can see, the Motorola Oncore VP GPS
> engine only interfaces with TTL instead of RS232. While this is not a
> problem for GPS engine to Mic-E; how do I connect to the GPS to tell it to
> go into NMEA format? Any help would be appreciated.
>
> Regards,
> Jeffrey Komori
> _____
>
> 264 North Whisman Road #16,   Mountain View,   CA
       94043-3930
>
> MCSE   KH6JUZ
                           PP-ASEL
>
> mailto:jeffk@jeffk.com
                    http://www.jeffk.com/jeffk.html
>
_____
>
>   KH6JUZ Enterprise [web hosting for]:
>
> http://www.baker-to-vegas.org/   B-to-V Challenge Cup Relay, APRS Support
> http://www.esperanto.org/   Esperanto - The International Language
> http://www.hawastsoc.org/   Hawaiian Astronomical Society
> http://www.hpcug.org/   Hawaii PC Users Group
> http://www.jeffk.com/   Jeffrey Komori's Info-Superhighway Reststop
> http://www.pclg.org/   Presbyterian Church of Los Gatos
> http://www.pdarrl.org/   Pacific Division of the ARRL
> http://www.recdotaviation.org/   Usenet's rec.aviation Goes to Reno
> http://www.svnpa.org/   Silicon Valley Network Prof. Assoc.
> http://www.unixguy.com/   Rob Scott - The Unix Guy
> http://www.smxgig.org/   The Annual AVSIG Santa Maria (SMX) Fly-in
>
_____
>

9. [MIC-E:1404] Re: Interfacing Motorola Oncore VP GPS Engine to

From: Larry Mollica <larry@soma.net>
Date: Fri, 7 Nov 1997 13:19:30 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <l03110700b089175ff77c@[181.100.100.101]>
Rendered body type: text/plain

Ok, a couple of thoughts from someone who's never had his hands on an Oncore. Please excuse if I tell you stuff you already know (or is just plain wrong).

If I understand this, your concern is that the Oncore input is TTL, and you need to send a command to the GPS to change its mode?

SOME GPS equipment, such as my Garmin, is usually referred to as TTL logic, but you can connect RS-232 +/- levels to it and it usually works ok for most computers. This can only work if the "TTL" from/to the GPS is 0volt=mark, +Xvolts=space. I would guess that this is _not_ the case with the Oncore?

It may be that the Oncore is + for mark, ground for space. I'm making that assumtion as the MIC-E TTL interface is designed that way. You should be able to tell quickly with a scope on the data out of the GPS, if it's mostly at +, it's probably +V mark (idle), and therefore won't work

directly connected to RS-232.

The good news is you can used an unused I/O on the ADM232 in the mic-e (U4)
to convert RS-232 levels to data-inverted TTL. (This is normaly supposed to
be for a mic-e internal gps with RS-232 interface, and is otherwise not
used).

Connect the computer or terminal's RS-232 send data, to mice-e JP3 pin 2
("NEMA-232").
Connect JP232 pin 1 ("O0" from U4) to the Oncore data input.

The ADM232 chip will convert the RS232 -Xv/+Xv to +5v/0v giving you the TTL
levels I'm ASSUMING the Oncore needs.

This should work out ok. I'm using this scheme to interface my Garmin to
the mic-e, with a 4049 inverter buffer to convert the garmin 0/+12 to +5/0
for the ADM232 chip, which then converts to RS-232. Wasn't necessary at all
just to connect the garmin to the mic-e, but I've also done a bunch more
mods (in the ham tradition of fixing what ain't broke). The end result is
the mic-e converts the GPS data to true RS-232 I can attach to computers
that are fussy about RS-232 voltages. The GPS can drive mic-e while the
computer has full access to the GPS I/O at the same time. Ok, enough
ranting...

Good luck
Larry
WA6FSJ

Jeffrey Komori writes:
>Hi Folks, (I'm sending this request again since I received no response the
>first time)
>
>I'm in the process of putting together a half dozen Mic-E's with Motorola
>Oncore VP GPS engines. I can't figure out how to program the GPS engine to
>go into NMEA format since the interface has data only going from the GPS
>engine to the Mic-E. Also, from what I can see, the Motorola Oncore VP GPS
>engine only interfaces with TTL instead of RS232. While this is not a
>problem for GPS engine to Mic-E; how do I connect to the GPS to tell it to
>go into NMEA format? Any help would be appreciated.
>
>Regards,
>Jeffrey Komori
>____
>
>264 North Whisman Road #16,   Mountain View,   CA   94043-3930
>
>MCSE   KH6JUZ   PP-ASEL
>
>mailto:jeffk@jeffk.com   http://www.jeffk.com/jeffk.html
>____

10. [MIC-E:1405] Help w/Mic-3 and Tm-733

From: Lloyd Frink <kc2agl@mhv.net>
Date: Fri, 7 Nov 1997 15:35:19 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34638511.6844042F@mhv.net>
Rendered body type: text/plain

Hi all, I have recently assembled a Mic-e unit along with the GPS-30PC
offered by Tapr awhile back. I plan on using this setup with a Kenwood
Tm-733. I have ran into two problems that hopefully somebody here will
have insight into and be able to offer solutions.

#1. While in Auto mode the ptt/rcv led is always illuminated preventing
the mic-e from transmitting. This is with a blank plug installed into
the Audio in jack, and the Rx pot turned all the way to max. No audio
should be going into or getting into the Mic-e, so why do I get a
continously lit LED? It is even stranger, if I go to manual, after a
period of time (5-20 seconds) The Led extinguishes, but the unit still
does not xmit when I release PTT, and Yes PTT does key the xcvr.

#2. The second issue involves the PIM, I have wired, and double checked
the PIM, according to the MIC-E manual for a Kenwood RJ-45 type mic, but
this has caused problems with the mic/rig. Namely the loss of the Call
function and the PF function, that I had programmed to be a band change
switch. Can anyone verify that the pin out given in the manual is the
correct pinout for a TM-733 with a backlit mic? Again I can xmit voice

fine with no problem through the Mic-E box.

Any suggestions to correct these problems would be greatly appreciated.
Thanks in advance.

73 de Lloyd KC2AGL

11. [MIC-E:1406] Re: Interfacing Motorola Oncore VP GPS Engine to

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 7 Nov 1997 17:50:02 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <v03110700b0894eb043d6@[206.138.226.122]>
Rendered body type: text/plain

Hi Jerffrey.

Probably your best bet for an answer to this question will be over on the
TACGPS list. Most of our VP experts or over on that list.

Cheers - Greg

>Hi Folks, (I'm sending this request again since I received no response the
>first time)
>
>I'm in the process of putting together a half dozen Mic-E's with Motorola
>Oncore VP GPS engines. I can't figure out how to program the GPS engine to
>go into NMEA format since the interface has data only going from the GPS
>engine to the Mic-E. Also, from what I can see, the Motorola Oncore VP GPS
>engine only interfaces with TTL instead of RS232. While this is not a
>problem for GPS engine to Mic-E; how do I connect to the GPS to tell it to
>go into NMEA format? Any help would be appreciated.
>
>Regards,
>Jeffrey Komori
>____
>
>264 North Whisman Road #16,   Mountain View,   CA   94043-3930
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>MCSE   KH6JUZ   PP-ASEL
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>mailto:jeffk@jeffk.com   http://www.jeffk.com/jeffk.html
>____
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>   KH6JUZ Enterprise [web hosting for]:
>
>http://www.baker-to-vegas.org/ B-to-V Challenge Cup Relay, APRS Support
>http://www.esperanto.org/   Esperanto - The International Language
>http://www.hawastsoc.org/   Hawaiian Astronomical Society
>http://www.hpcug.org/   Hawaii PC Users Group
>http://www.jeffk.com/   Jeffrey Komori's Info-Superhighway Reststop
>http://www.pclg.org/   Presbyterian Church of Los Gatos
>http://www.pdarrl.org/   Pacific Division of the ARRL
>http://www.recdotaviation.org/ Usenet's rec.aviation Goes to Reno
>http://www.svnpa.org/   Silicon Valley Network Prof. Assoc.
>http://www.unixguy.com/   Rob Scott - The Unix Guy
>http://www.smxgig.org/   The Annual AVSIG Santa Maria (SMX) Fly-in
>____

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

12. [MIC-E:1407] Re: Help w/Mic-3 and Tm-733

From: "marv" <marv@means.net>
Date: Sat, 8 Nov 1997 13:26:57 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711081929.NAA12506@orion.means.net>
Rendered body type: text/plain

i think u installed the auto/manual switch 180 out of phase... the manual
didnt tell u how to do it so u have a 50-50 chance of being right.   no
thought on #2 question----------
> From: Lloyd Frink <kc2agl@mhv.net>
> To: mic-e@tapr.org
> Subject: [MIC-E:1405] Help w/Mic-3 and Tm-733
> Date: Friday, November 07, 1997 3:35 PM

>
> Hi all, I have recently assembled a Mic-e unit along with the GPS-30PC
> offered by Tapr awhile back. I plan on using this setup with a Kenwood
> Tm-733. I have ran into two problems that hopefully somebody here will
> have insight into and be able to offer solutions.
>
> #1. While in Auto mode the ptt/rcv led is always illuminated preventing
> the mic-e from transmitting. This is with a blank plug installed into
> the Audio in jack, and the Rx pot turned all the way to max. No audio
> should be going into or getting into the Mic-e, so why do I get a
> continously lit LED? It is even stranger, if I go to manual, after a
> period of time (5-20 seconds) The Led extinguishes, but the unit still
> does not xmit when I release PTT, and Yes PTT does key the xcvr.
>
> #2. The second issue involves the PIM, I have wired, and double checked
> the PIM, according to the MIC-E manual for a Kenwood RJ-45 type mic, but
> this has caused problems with the mic/rig. Namely the loss of the Call
> function and the PF function, that I had programmed to be a band change
> switch. Can anyone verify that the pin out given in the manual is the
> correct pinout for a TM-733 with a backlit mic? Again I can xmit voice
> fine with no problem through the Mic-E box.
>
> Any suggestions to correct these problems would be greatly appreciated.
> Thanks in advance.
>
> 73 de Lloyd KC2AGL
>

13. [MIC-E:1408] kit questions/comments

From: Doug Hogarth <DougHo@gte.net>
Date: Mon, 10 Nov 1997 15:19:18 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <01BCEDDA.46166EE0.DougHo@gte.net>
Rendered body type: text/plain

Got my Mic-E running, but have questions/comments:

1) I did not receive connector part "8 pin machine screw dip socket" - am I
the only one?

2) The Icom mic seems to output 7.8V, so If I understand the directions
correctly, I must route power from pin 1 of the header to the external
power connector since it is over 7.5V max - right?

3) I'm having the same trouble fitting the rear cover plate that I think
others have mentioned (and I thought a review said had been fixed). What
is it that needs to be filed - is it the portion of the plate immediately
to the left side of the DB-9 connector (when looking at the writing)?

4) When mounting GPS-20 (best fit matched what is pictured on TAPR web
site), I found that there was no hole for the fourth standoff (so I only
used three), and I had to bend C14 over slightly.

5) The doc says that the default J232 position was ON, but mine was off
(which I changed back to ON for my internal Garmin). Don't trust the doc -
check yourself.

6) the doc has typos - page 10, MNEA-232 should be NMEA-232. also page 15
has "wiht" (rather than "with"), and "yoru" should be "your".

14. [MIC-E:1409] Re: kit questions/comments

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 10 Nov 1997 15:28:32 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971110162445.21238C-100000@arctic>
Rendered body type: text/plain

On Mon, 10 Nov 1997, Doug Hogarth wrote:

> 2) The Icom mic seems to output 7.8V, so If I understand the directions
> correctly, I must route power from pin 1 of the header to the external
> power connector since it is over 7.5V max - right?

Nope, I would say that that is fine for the voltage divider. But it
cannot be used if you are going to be powering the GPS from the Mic-E...
The load will be too great for the ICOM...

> 4) When mounting GPS-20 (best fit matched what is pictured on TAPR web

*** Ah HA! Forget powering the Mic-e from the Mic power when also
powering the GPS...

15. [MIC-E:1410] Re: kit questions/comments

From: glenn miller <gmiller@cci-29palms.com>
Date: Mon, 10 Nov 1997 19:34:35 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711110230.SAA07704@cci.cci-29palms.com>
Rendered body type: text/plain

Hi Doug. I recently put my kit together and had to enlarge the holes for the
external audio and gps input on the rear. That allowed those to jacks to
seat properly and the rear panel was then flush against the back. I used a
rat-tail file.

This is a very good help system, so I'm sure you will get all the answers
you need. 73 - Glenn N6GIW

At 03:19 PM 11/10/97 -0600, you wrote:
>Got my Mic-E running, but have questions/comments:
>
>1) I did not receive connector part "8 pin machine screw dip socket" - am I
>the only one?
>
>2) The Icom mic seems to output 7.8V, so If I understand the directions
>correctly, I must route power from pin 1 of the header to the external
>power connector since it is over 7.5V max - right?
>
>3) I'm having the same trouble fitting the rear cover plate that I think
>others have mentioned (and I thought a review said had been fixed). What
>is it that needs to be filed - is it the portion of the plate immediately
>to the left side of the DB-9 connector (when looking at the writing)?
>
>4) When mounting GPS-20 (best fit matched what is pictured on TAPR web
>site), I found that there was no hole for the fourth standoff (so I only
>used three), and I had to bend C14 over slightly.
>
>5) The doc says that the default J232 position was ON, but mine was off
>(which I changed back to ON for my internal Garmin). Don't trust the doc -
>check yourself.
>
>6) the doc has typos - page 10, MNEA-232 should be NMEA-232. also page 15
>has "wiht" (rather than "with"), and "yoru" should be "your".
>
>
>
Glenn E. Miller N6GIW
PO Box 12
Joshua Tree Ca 92252-0012
N6GIW @ W6QZ.#SCA.CA.USA.NA
gmiller@cci-29palms.com
760-364-3957
760-364-2466 fax 24 hours

16. [MIC-E:1411] radio key up

From: "marv" <marv@means.net>
Date: Tue, 11 Nov 1997 14:54:41 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711112058.OAA00051@orion.means.net>
Rendered body type: text/plain

in wireing mic-e to alinco models dr 605 and dr130, both have the same
problem, the radio will key up and stay keyed when mic-e is turned off.
turn radio off and then back on it is not keyed but will not key up or
transmit when mic button is pressed. help me..
                                marv n0pcd

17. [MIC-E:1412] Re: Help w/Mic-3 and Tm-733

From: "Milton D. Miller II" <miltonm@bga.com>
Date: Tue, 11 Nov 1997 15:28:49 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711112114.PAA19660@zoom.bga.com>
Rendered body type: text/plain

Lloyd KC2AGL wrote:
> #2. The second issue involves the PIM, I have wired, and double checked
> the PIM, according to the MIC-E manual for a Kenwood RJ-45 type mic, but
> this has caused problems with the mic/rig. Namely the loss of the Call

> function and the PF function, that I had programmed to be a band change
> switch. Can anyone verify that the pin out given in the manual is the
> correct pinout for a TM-733 with a backlit mic? Again I can xmit voice
> fine with no problem through the Mic-E box.

I am guesing that your up button also doesn't work... in that case the
problem is the wire for your up button is probably open somewhere...
The up line is on hte right when looking at the socket with the tab down.

If your up works, but the other functions still don't, then you probably
have a resistive connection.... the call and PF are resistors to gound
on up, like memory and vfo are resistors on down.

milton
--
Milton Miller KB5TKF miltonm@bga.com

18. [MIC-E:1413] Re: radio key up

From: Doug Wetzel <dwetzel@earthlink.net>
Date: Tue, 11 Nov 1997 16:29:52 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.32.19971111142223.00a11fe8@earthlink.net>
Rendered body type: text/plain

At 02:54 PM 11/11/97 -0600, you wrote:
>in wireing mic-e to alinco models dr 605 and dr130, both have the same
>problem, the radio will key up and stay keyed when mic-e is turned off.
>turn radio off and then back on it is not keyed but will not key up or
>transmit when mic button is pressed. help me..
>   marv n0pcd

Marv, this sounds suspiciously like the Kenwood Key-Down problem discussed
here a month or two back. If you don't have the archives, let me know and
I'll see if I can find the discussion. The fix involves putting in a diode.

Doug
K7IP

Doug Wetzel
K7IP
Seattle APRS Coordinator
47 38 00N 122 20 29W
ICQ 164635

dwetzel@earthlink.net

http://home.earthlink.net/~dwetzel/radiolinks.html

19. [MIC-E:1414] Re: radio key up

From: glenn miller <gmiller@cci-29palms.com>
Date: Tue, 11 Nov 1997 18:30:27 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711120126.RAA07788@cci.cci-29palms.com>
Rendered body type: text/plain

Dear Marv/N0PCD,

I am using an Alinco DR-570 and have the same problem. MY solution is to
turn on the Mic-E first, then the radio. Do not turn off the Mic-E unit
while the radio is on and everything is fine. When shutting down, turn off
the radio first.

Of course I'm not sure if this is how it is supposed to work, but it solved
the problem. I imagine if you are running Mic-E you are expected to have the
unit on.

73

Glenn N6GIW

At 02:54 PM 11/11/97 -0600, you wrote:
>in wireing mic-e to alinco models dr 605 and dr130, both have the same
>problem, the radio will key up and stay keyed when mic-e is turned off.
>turn radio off and then back on it is not keyed but will not key up or
>transmit when mic button is pressed. help me..
>   marv n0pcd
>

>
>
>
>
Glenn E. Miller N6GIW
PO Box 12
Joshua Tree Ca 92252-0012
N6GIW @ W6QZ.#SCA.CA.USA.NA
gmiller@cci-29palms.com
760-364-3957
760-364-2466 fax 24 hours

20. [MIC-E:1415] Re: Help w/Mic-3 and Tm-733

From: Lloyd Frink <kc2agl@mhv.net>
Date: Tue, 11 Nov 1997 20:33:34 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34691151.D840C4EB@mhv.net>
Rendered body type: text/plain

I got out scat, and looked up, saw what I was against, and Mic-E sit in corner
waiting my attention. Just a little frustrated over it. And the auto/manual
switch maybe 180 out, but it didn't make sense to twist the wiring to reverse
it. Will pick things up again in a couple days time, maybe over the weekend.

Milton D. Miller II wrote:

> Lloyd KC2AGL wrote:
> > #2. The second issue involves the PIM, I have wired, and double checked
> > the PIM, according to the MIC-E manual for a Kenwood RJ-45 type mic, but
> > this has caused problems with the mic/rig. Namely the loss of the Call
> > function and the PF function, that I had programmed to be a band change
> > switch. Can anyone verify that the pin out given in the manual is the
> > correct pinout for a TM-733 with a backlit mic? Again I can xmit voice
> > fine with no problem through the Mic-E box.
>
> I am guesing that your up button also doesn't work... in that case the
> problem is the wire for your up button is probably open somewhere...
> The up line is on hte right when looking at the socket with the tab down.
>
> If your up works, but the other functions still don't, then you probably
> have a resistive connection.... the call and PF are resistors to gound
> on up, like memory and vfo are resistors on down.
>
> milton
> --
> Milton Miller KB5TKF miltonm@bga.com

21. [MIC-E:1416] MIC-E, anyone actually have a repeater site?

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Wed, 12 Nov 1997 05:50:44 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3469977F.293B@popmail.firn.edu>
Rendered body type: text/plain

We have a couple of hams in the neighborhood who purchased the MIC-E.
Has anyone actually interfaced a TNC at a repeater site (or elsewhere)
and used the thing on a voice frequency? If so,

1. Do you hear the packet racket through the repeater?
2. How did you do the repeater/APRS link?

Thanks,

John, KN4HX

22. [MIC-E:1417] Mic-e Digi path

From: W9JC@aol.com
Date: Wed, 12 Nov 1997 07:06:16 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <971112075809_-556882994@mrin52.mail.aol.com>
Rendered body type: text/plain

Ok, I admit it. I can not seem to get my mic-e path correct.
I do not here any digis pick up my transmission and my tracking
is limited to simplex range around the home qth. I have studied the
table and must admit to some confusion. via path is relay, wide, wide, local
wide, wide, wide. I have tried most of the combinations on page 12. It
would seem to me that position 3 on the path and ssid switches should get me

a path of relay, wide, wide, and position 4,4 should get me local wide.
 Nothing seems to digi however.
What am I missing? Searched the mail archives and did not find much about
this.
Also what is the D/O column in the 2nd table on page 12? Thanks for the
help!
              Joe Carter, w9jc
              jbc5@po.cwru.edu

23. [MIC-E:1418] Re: MIC-E, anyone actually have a repeater site?

From: David Dobbins <ddobbins@localaccess.com>
Date: Wed, 12 Nov 1997 08:42:23 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <14363073930506@Localaccess.com>
Rendered body type: text/plain

Hi John. We have a Mic-E repeater agreement in Seattle on 146.96. The
Seattle coordinator/K7IP Doug may also respond. He has the link-over
stuff at his house. Composed of a scanner to receive the repeater
frequency, audio output ties into the audio input from his 2m radio at
the house, going into the TNC, then back over the air. No equipment was
required at the repeater site. Anybody can do this, but what's important
is that you get approval from the repeater group to do mic-e ops.

Yes, you will hear a brief "brack" of packet, about .3 second long, at
the end of a transmission from the mic-e unit. We will not introduce any
automatic transmissions (e.g. every 30 secs) onto the repeater, only the
update following mic release.

Hope this helps. I'm going to do the same effort with the 147.06 repeater
here in sw Washington. The site is at 3200' and has a range of about 60
miles. Much of that is along I-5, so this should be a good repeater for
mic-e ops.

Good luck, 73, Dave/WH6YC

David S. Dobbins

24. [MIC-E:1419] Re: radio key up

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Nov 1997 08:56:15 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971112094815.15879G-100000@arctic>
Rendered body type: text/plain

Do you hvae the TAPR Mic-e or the prototype...?

On Tue, 11 Nov 1997, marv wrote:

> in wireing mic-e to alinco models dr 605 and dr130, both have the same
> problem, the radio will key up and stay keyed when mic-e is turned off.
> turn radio off and then back on it is not keyed but will not key up or
> transmit when mic button is pressed. help me..
>   marv n0pcd
>
>
>
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

25. [MIC-E:1420] Re: MIC-E, anyone actually have a repeater site?

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 12 Nov 1997 09:46:53 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.879349246.alan@watsol>
Rendered body type: text/plain

> We have a couple of hams in the neighborhood who purchased the MIC-E.
> Has anyone actually interfaced a TNC at a repeater site (or elsewhere)
> and used the thing on a voice frequency? If so,

>
> 1. Do you hear the packet racket through the repeater?
> 2. How did you do the repeater/APRS link?
>
> Thanks,
>
> John, KN4HX
>

I'm working on it. My club's engineering and digital directors are probably
a little tired of hearing me say that:-) I've had a couple of TNC2's
sitting in my shack for months now....

I did a prototype implementation using a program I wrote that runs under
Linux. A couple of folks are using it. It needs improving though....
http://www.cloud9.net/~alan/ham/aprs/ has a link to the source for it.

As far as repeater muting goes, that has been discussed although I'm
not sure anybody is running it "in production" yet. It's fairly easy
conceptually to use the DCD signal on the TNC to mute the transmit audio
at the repeater controller. There is usually an inherent delay between
RX and TX audio through the controller that should allow the muting to happen
in time.

One feature of muting that I would recommend is that it be selectable
as a control-op function. There may be times when you want to hear
the braaaps since repeating them over to the aprs freq may not always
be so reliable if that freq is heavily loaded.

73 de Alan N2YGK

26. [MIC-E:1421] Re: Mic-e Digi path

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Nov 1997 09:47:15 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971112104359.15879U-100000@arctic>
Rendered body type: text/plain

On Wed, 12 Nov 1997 W9JC@aol.com wrote:

> Ok, I admit it. I can not seem to get my mic-e path correct.
> I do not here any digis pick up my transmission and my tracking
> is limited to simplex range around the home qth. I have studied the
> table and must admit to some confusion. via path is relay, wide, wide, local
> wide, wide, wide. I have tried most of the combinations on page 12. It
> would seem to me that position 3 on the path and ssid switches should get me
> a path of relay, wide, wide, and position 4,4 should get me local wide.
> Nothing seems to digi however.
> What am I missing? Searched the mail archives and did not find much about
> this.
> Also what is the D/O column in the 2nd table on page 12? Thanks for the
> help!
>   Joe Carter, w9jc
>   jbc5@po.cwru.edu
>
>

APRSdos REPLY/COMMENT: Are you sure that you have the MESSAGE switch on
the RIGHT side. If not, then you are only selecting the SSID....

Look at your transmitted packet and see exactly what the PATH is doing as
you change the switch positions...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

27. [MIC-E:1422] Re: MIC-E, anyone actually have a repeater site?

From: Doug Wetzel <dwetzel@earthlink.net>
Date: Wed, 12 Nov 1997 09:56:47 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.32.19971112074649.01068fe8@earthlink.net>
Rendered body type: text/plain

Hello John...

Yes, we have our voice machine here in Seattle on 146.96 able to use
Mic-Encoding. I have a separate receiver for the repeater output at my
qth, and merely tie the audio from that receiver and the audio from my APRS
receiver together at the tnc.   It's a quick and dirty solution, which
works to get mic-encoding on the air, but the downside is that the data
DOES appear on the repeater output. We have the luxury of having APRS
friendly users, and this doesn't present a problem to them.

The system is also undergoing some changes (new controller, relocate and
boost transmitter power) which at some near term point involve suppressing
the data from the output, but that's a low priority.

I have also experimented with a separate transceiver/tnc combination with
the radio set to receive on 146.96 and transmit on 145.79. This actually
works better, but of course involves more (expensive) hardware. It has
the advantage of not keeping my station from transmitting on .79 when there
is voice on .96, as the dual audio feed does (I use a tnc that doesn't have
true dcd).

Hope this helps!

73!

Doug Wetzel
K7IP
Seattle APRS Coordinator
47 38 00N 122 20 29W
ICQ 164635

dwetzel@earthlink.net

http://home.earthlink.net/~dwetzel/radiolinks.html

28. [MIC-E:1423] Re: Mic-e Digi path

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 12 Nov 1997 11:22:41 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.879354825.alan@watsol>
Rendered body type: text/plain

> Ok, I admit it. I can not seem to get my mic-e path correct.
> I do not here any digis pick up my transmission and my tracking
> is limited to simplex range around the home qth. I have studied the
> table and must admit to some confusion. via path is relay, wide, wide, local
> wide, wide, wide. I have tried most of the combinations on page 12. It
> would seem to me that position 3 on the path and ssid switches should get me
> a path of relay, wide, wide, and position 4,4 should get me local wide.
> Nothing seems to digi however.
> What am I missing? Searched the mail archives and did not find much about
> this.
> Also what is the D/O column in the 2nd table on page 12? Thanks for the
> help!
>   Joe Carter, w9jc
>   jbc5@po.cwru.edu
>

Set the switch to DIGI instead of SSID mode. SSID mode is only understood
by special digipeaters that are far and few between.

73 de Alan N2YGK

29. [MIC-E:1424] Re: Mic-e Digi path

From: glenn miller <gmiller@cci-29palms.com>
Date: Wed, 12 Nov 1997 11:33:47 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711121821.KAA03587@cci.cci-29palms.com>
Rendered body type: text/plain

Dear Joe W9JC,

I had the same problem with the path and not hitting the digis. I had
installed the knob incorrectly and was selecting the SSID path rather than
the DIGI path. Make sure the lamp color matches the color listed on the
table in the instructions for the path you are selecting.

Glenn N6GIW

At 07:06 AM 11/12/97 -0600, you wrote:
>Ok, I admit it. I can not seem to get my mic-e path correct.
>I do not here any digis pick up my transmission and my tracking
>is limited to simplex range around the home qth. I have studied the
>table and must admit to some confusion. via path is relay, wide, wide, local
>wide, wide, wide. I have tried most of the combinations on page 12. It
>would seem to me that position 3 on the path and ssid switches should get me
>a path of relay, wide, wide, and position 4,4 should get me local wide.
> Nothing seems to digi however.
>What am I missing? Searched the mail archives and did not find much about
>this.
>Also what is the D/O column in the 2nd table on page 12? Thanks for the
>help!
>   Joe Carter, w9jc
>   jbc5@po.cwru.edu
>
>
Glenn E. Miller N6GIW
PO Box 12
Joshua Tree Ca 92252-0012
N6GIW @ W6QZ.#SCA.CA.USA.NA
gmiller@cci-29palms.com
760-364-3957
760-364-2466 fax 24 hours

30. [MIC-E:1425] Mic-E Key-when-off Solution

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Nov 1997 13:12:32 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971112140039.26076C-100000@arctic>
Rendered body type: text/plain

Here is the message I posted some time ago to fix the problem of the Mic-E
Keying some radios when turned off.

The R26 is to pull up the input on pin 13 to U6F. The diode needs to
isolate this input and R26 combination from the rest of the
circuit which is Q4 collector and D3. Connect the cathode of the diode to
Q4 and the anode to the R26 and pin 13 combo.

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

31. [MIC-E:1426] Re: Mic-E Key-when-off Solution

From: Doug Wetzel <dwetzel@earthlink.net>
Date: Wed, 12 Nov 1997 16:01:59 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.32.19971112135233.00ef2078@earthlink.net>
Rendered body type: text/plain

Don't you have to cut the trace, too?

At 01:12 PM 11/12/97 -0600, you wrote:
>Here is the message I posted some time ago to fix the problem of the Mic-E
>Keying some radios when turned off.
>
>The R26 is to pull up the input on pin 13 to U6F. The diode needs to
>isolate this input and R26 combination from the rest of the
>circuit which is Q4 collector and D3. Connect the cathode of the diode to
>Q4 and the anode to the R26 and pin 13 combo.
>
>Reply mail addr: wb4apr@amsat.org
>US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
>See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
>See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
>
>

32. [MIC-E:1427] Re: Mic-E Key-when-off Solution

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 12 Nov 1997 16:22:29 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971112171547.27267J-100000@arctic>
Rendered body type: text/plain

On Wed, 12 Nov 1997, Doug Wetzel wrote:

> Don't you have to cut the trace, too?

*** Im sure you do. Since R-26 is not even shown on the Schematic (it
was a last minute production change), any one who does this should trce
the circuit and decide his best way to add the diode...

> >The R26 is to pull up the input on pin 13 to U6F. The diode needs to
> >isolate this input and R26 combination from the rest of the
> >circuit which is Q4 collector and D3. Connect the cathode of the diode to
> >Q4 and the anode to the R26 and pin 13 combo.
> >
> >Reply mail addr: wb4apr@amsat.org
> >US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> >See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> >See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> >See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
> >
> >
> >
> >
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

33. [MIC-E:1428] Re: MIC-E, anyone actually have a repeater site?

From: Wes Johnston <kd4rdb@usa.net>
Date: Wed, 12 Nov 1997 18:29:21 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.32.19971112173531.006e3080@coca.net>
Rendered body type: text/plain

We are about to do this in Savannah on the 146.97 repeater. The plan is to
have the aprs wide node transmitting from the VHF 1/2 of the control link
antenna at 300'. The repeater antenna is at 600'. The TNC is a KPC 4, and
both 1200 ports' TX audio and PTT pins are connected to the APRS radio on
145.79. One of the ports hears the aprs radio, the other, repeater audio.
I tied the CD light on the kpc4 in series with a 1n914 to the base of a
2n2904. There is a .22uF capacitor from the base to ground. The front
panel lights of the kpc4 are strobed, and this diode and capacitor
arraingement rectifies the pulses to smooth them out. This provides an
open collector output that pulls low when data is present on the voice
channel. This open collector has been wired to pin 4 on the radio port.
i had to cut the trace going to pin 4, but it was no big deal since it was
only a copy of RX audio. I intend to wire a relay in series with the
discriminator output from the repeater audio reciever so that the audio
path is thru the normally closed contacts. The when the relay coil is
pulled to ground, the contacts will open, there by muting the audio into
the repeater. The best part about this is that should the TNC be
unplugged, the repeater will operate normally.

John/Carol Wilson wrote:
>We have a couple of hams in the neighborhood who purchased the MIC-E.
>Has anyone actually interfaced a TNC at a repeater site (or elsewhere)
>and used the thing on a voice frequency? If so,
>
>1. Do you hear the packet racket through the repeater?
>2. How did you do the repeater/APRS link?
>
>Thanks,
>
>John, KN4HX
>
>
Wes

Email: mailto:kd4rdb@usa.net
EU ax25: mailto:kd4rdb@on1kul-10.ampr.org
WEB: http://www.qsl.net/kd4rdb
ICQ: 273949
Lat/Long: 3202.42N/08110.00W
Want to learn how to track cars, storms, and events on ham radio?
click here-> http://www.qsl.net/kd4rdb/aprs.htm

34. [MIC-E:1429] Re: MIC-E, anyone actually have a repeater site?

From: "Gregory H. Faust" <n4pgs@mail.com>
Date: Wed, 12 Nov 1997 22:43:30 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19971112233448.006bea94@cstone.net>
Rendered body type: text/plain

John,
  Club station WA4TFZ in Charlottesville VA has a fully MIC-E compatible APRS/voice repeater system. It consists of two linked TNCs - one as a normal APRS digi and the other tied to the voice repeater. The repeater has an audio delay line and a mute circuit that suppresses any packet noise on the voice repeater. Our system has the voice repeater and APRS digi 'co-located' in the same building, so it made it possible to hook them together like this.
  The two TNCs share the 145.79 transmitter using linked PTT and XCD (TNC squelch input) lines. The only 'effect' on the local voice repeater is a bit of a delay in the audio passing through the voice repeater (sounds like reverb if you listen to both the input and output of the repeater at the same time...packets are heard on the input, but not on the output!).
Greg   N4PGS

At 05:50 AM 11/12/97 -0600, John/Carol Wilson wrote:
>We have a couple of hams in the neighborhood who purchased the MIC-E.
>Has anyone actually interfaced a TNC at a repeater site (or elsewhere)
>and used the thing on a voice frequency? If so,
>
>1. Do you hear the packet racket through the repeater?
>2. How did you do the repeater/APRS link?
>
>Thanks,
>
>John, KN4HX
>
>
Greg Faust N4PGS
n4pgs@mail.com

35. [MIC-E:1430] connection to Yaesu handheld

From: Doug Hogarth <DougHo@gte.net>
Date: Wed, 12 Nov 1997 23:19:05 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <01BCEF9A.1D86B220.DougHo@gte.net>
Rendered body type: text/plain

Has anyone hooked their MIC-E to a FT-50R or similar? My MIC-E works fine with Icom RJ-45, so I proceeded to wire a patch cable to my FT-50R (built from halves of Yaesu's "cloning" cable and a category 5 patch cable). The Yaesu manual shows 2Kohm resistor to PTT and 10uF capacitor to Mic. My attempt was to remove the appropriate MIC-E jumper to use it's 2.2Kohm (and move the PTT jumper to the Mic line). The RJ-45 ground that I used was the Mic ground (not the other ground). It seems to holdoff properly and attempts to transmit, but the transmission seems broken up (therefore not decoded by another radio). Maybe I just need to add the capacitor?

Any comments for this beginner? The problem occured both with the TXD set at default (213ms) and increased to 313ms. I did not try disabling Yaesu's "sleep" feature, either. I'm just trying to use it as a tracker on 145.79 (which works since I've tested it with Icom RJ-45).

36. [MIC-E:1431] Testing

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Thu, 13 Nov 1997 21:23:26 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711140307.VAA04202@vuse.vanderbilt.edu>
Rendered body type: text/plain

I have completed most tests of my mic-e. It does not transmit a packet burst after I unkey the mic. I have not yet connected the GPS. Is a GPS

fix required for the mic-e to transmit a packet burst? It will transmit a
packet burst in the AUTO mode if I rotate the PERIOD knob. To this point,
everything else seems OK.

TNX and 73

Gene W4IMT

37. [MIC-E:1432] Re: Testing

From: David Dobbins <ddobbins@localaccess.com>
Date: Thu, 13 Nov 1997 22:57:18 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <346BD651.F8397766@localaccess.com>
Rendered body type: text/plain

Gene, I heard mine transmit w/o the GPS connected, so I think it should tx
w/o GPS. On the mic-e auto/manual switch, I noticed it would be easy to get
this backwards. I lucked out and got mine in right the first time. Dave.

Eugene Pentecost wrote:

> I have completed most tests of my mic-e. It does not transmit a packet
> burst after I unkey the mic. I have not yet connected the GPS. Is a GPS
> fix required for the mic-e to transmit a packet burst? It will transmit a
> packet burst in the AUTO mode if I rotate the PERIOD knob. To this point,
> everything else seems OK.
>
> TNX and 73
>
> Gene W4IMT

38. [MIC-E:1433] Re: Testing

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 14 Nov 1997 07:34:20 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <346C5085.5D49C1A0@amsat.org>
Rendered body type: text/plain

Check the period timing and audio hold-off. The audio from the radio may be
holding off the transmissions. The auto packet will not transmit until the
period time has expired.

Eugene Pentecost wrote:
>
> I have completed most tests of my mic-e. It does not transmit a packet
> burst after I unkey the mic. I have not yet connected the GPS. Is a GPS
> fix required for the mic-e to transmit a packet burst? It will transmit a
> packet burst in the AUTO mode if I rotate the PERIOD knob. To this point,
> everything else seems OK.
>
> TNX and 73
>
> Gene W4IMT

--
Ron W5RKN

also:
rparsons@bga.com

39. [MIC-E:1434] Re: Testing

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Fri, 14 Nov 1997 07:34:43 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711141327.HAA17729@vuse.vanderbilt.edu>
Rendered body type: text/plain

At 10:57 PM 11/13/97 -0600, you wrote:
>Gene, I heard mine transmit w/o the GPS connected, so I think it should tx
>w/o GPS. On the mic-e auto/manual switch, I noticed it would be easy to get
>this backwards. I lucked out and got mine in right the first time. Dave.

Dave, tnx for the reply. My AUTO/MANUAL switch seems OK. The green LED
comes on in MANUAL as the instructions say.

Gene
>

>
>
>

40. [MIC-E:1435] Re: Testing

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Fri, 14 Nov 1997 13:10:05 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711141904.NAA23970@vuse.vanderbilt.edu>
Rendered body type: text/plain

At 07:34 AM 11/14/97 -0600, you wrote:
>Check the period timing and audio hold-off. The audio from the radio may be
>holding off the transmissions. The auto packet will not transmit until the
>period time has expired.
>

Ron-

Thanks for the reply. I will double check the period time. I plan to check the audio circuit. Currently, I have no audio input because I didn't want any hold off.

TNX and 73

Gene W4IMT

41. [MIC-E:1436] Failure to key problem

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Fri, 14 Nov 1997 14:15:15 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711142007.OAA01567@vuse.vanderbilt.edu>
Rendered body type: text/plain

Those of you who responded to my question about failure to send a packet when the mic is unkeyed caused me to rethink how the unit is supposed to work. There is nothing wrong with it. I did not understand that a packet is sent when the mike is unkeyed ONLY if the PERIOD has expired.

TNX for the help

Gene W4IMT

42. [MIC-E:1437] tripmate gps

From: "marv" <marv@means.net>
Date: Sun, 16 Nov 1997 13:50:04 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711161945.NAA09685@orion.means.net>
Rendered body type: text/plain

in all the vast knowledge out there someone has to know how to get tripmate gps to send out nema string without the use of a computer. need help.

marv n0pcd

43. [MIC-E:1438] Re: tripmate gps

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Sun, 16 Nov 1997 14:19:14 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971116151807.006a6568@mail.mosquito.com>
Rendered body type: text/plain

At 01:50 PM 11/16/97 -0600, you wrote:
>   in all the vast knowledge out there someone has to know how to get
>tripmate gps to send out nema string without the use of a computer. need
>help.

W2HOB: Tie pins 2 & 3 together. It'll "self-prime" its pump.

73 de Boyd

44. [MIC-E:1439] Re: tripmate gps

From: Jim Duncan <ku0g@kcaprs.org>
Date: Sun, 16 Nov 1997 15:46:24 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <346F696F.85E16C34@kcaprs.org>
Rendered body type: text/plain

Connect pins 2 and 3 together. When the Tripmate initializes it sends
a message "ASTRAL" and expects to see a response from the
computer/device it's attached to. The response is also "ASTRAL". By
connecting these two pins together the TM will initialize properly...

marv wrote:
>
>   in all the vast knowledge out there someone has to know how to get
> tripmate gps to send out nema string without the use of a computer. need
> help.
>   marv n0pcd

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

45. [MIC-E:1440] Re: tripmate gps

From: "marv" <marv@means.net>
Date: Sun, 16 Nov 1997 17:31:26 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711162303.RAA11851@orion.means.net>
Rendered body type: text/plain

i have tryed that and it does not work,,,,,,,do i have to have it pwered up
exteral or will internal batts. work?

> From: Boyd Prestwood <w2hob@mosquito.com>
> To: mic-e@tapr.org
> Subject: [MIC-E:1438] Re: tripmate gps
> Date: Sunday, November 16, 1997 2:19 PM
>
> At 01:50 PM 11/16/97 -0600, you wrote:
> >   in all the vast knowledge out there someone has to know how to
get
> >tripmate gps to send out nema string without the use of a computer. need
> >help.
>
> W2HOB: Tie pins 2 & 3 together. It'll "self-prime" its pump.
>
> 73 de Boyd
>

46. [MIC-E:1441] Re: tripmate gps

From: "marv" <marv@means.net>
Date: Sun, 16 Nov 1997 17:32:04 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711162305.RAA12262@orion.means.net>
Rendered body type: text/plain

i do not want to use a comp[ter... i need it to stand alone... 2 &3
together will not work ...
  i am useing tripmate with mic-e i hope but not have been sucesful.. help
                                                  marv

> From: Jim Duncan <ku0g@kcaprs.org>
> To: mic-e@tapr.org
> Subject: [MIC-E:1439] Re: tripmate gps
> Date: Sunday, November 16, 1997 3:46 PM
>
> Connect pins 2 and 3 together. When the Tripmate initializes it sends
> a message "ASTRAL" and expects to see a response from the
> computer/device it's attached to. The response is also "ASTRAL". By
> connecting these two pins together the TM will initialize properly...
>
> marv wrote:
> >
> >   in all the vast knowledge out there someone has to know how to
get
> > tripmate gps to send out nema string without the use of a computer.
need
> > help.
> >   marv n0pcd

>
> --
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group, W0APR
> Rogue Squadron Storm Chasers
> Mailto:ku0g@kcaprs.org
> Webpage: http://www.kcaprs.org
> BorgNet: 1st of 10
>

47. [MIC-E:1442] Re: tripmate gps

From: rholbert@juno.com (Richard L. Holbert)
Date: Sun, 16 Nov 1997 20:28:02 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971116.215546.2183.1.rholbert@juno.com>
Rendered body type: text/plain

Marv,

According to the Tripmate FAQ, you can trick it into sending NMEA strings
by shorting pins 2 and 3 together and powering it up by asserting DTR.

Hope this helps.

Rick, KB8DNR

On Sun, 16 Nov 1997 13:50:47 -0600 (CST) mic-e@tapr.org writes:
>   MIC-E Digest 235
>
>Topics covered in this issue include:
>
> 1) tripmate gps
>   by "marv" <marv@means.net>
>
>--
>
>Date: Sun, 16 Nov 1997 13:41:00 -0600
>From: "marv" <marv@means.net>
>To: <mic-e@tapr.org>
>Subject: tripmate gps
>Message-ID: <199711161945.NAA09685@orion.means.net>
>
>   in all the vast knowledge out there someone has to know how
>to get
>tripmate gps to send out nema string without the use of a computer.
>need
>help.
>   marv n0pcd
>
>
>------------------------------
>
>End of MIC-E Digest 235
>**********************
>

48. [MIC-E:1443] Re: tripmate gps

From: William Nolle <wa8inz@mindspring.com>
Date: Sun, 16 Nov 1997 20:28:35 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <346FA8D8.7C40@mindspring.com>
Rendered body type: text/plain

marv wrote:
>
> i have tryed that and it does not work,,,,,,,do i have to have it pwered up
> exteral or will internal batts. work?
>

I don't know about the Mic-e but that works on everything else and yes
also with it's internal battery power. I have 3 Tripmates and all work
just great.

--
Willian Nolle [wa8inz]
wa8inz@mindspring.com
wa8inz@amsat.org
Hazel Green,AL

49. [MIC-E:1444] Re: tripmate gps

From: Robert Winingham <kc5ejk@onramp.net>
Date: Sun, 16 Nov 1997 21:39:09 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <v03102801b095604587a4@[206.50.200.3]>
Rendered body type: text/plain

you still need to assert the Tripmate DTR rs-232
handshake line to start the GPS , then the wire 'or-ing'
of line 2 and 3 will return the correct string to the tripmate
to start the NMEA data.

The echo of the NMEA data back into the Tripmate seems to not
effect operations.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

50. [MIC-E:1445] Re: MIC-E digest 235

From: Dan Welch <amersci@flash.net>
Date: Sun, 16 Nov 1997 23:19:35 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971116085710.00951940@pop.flash.net>
Rendered body type: text/plain

At 01:50 PM 11/16/97 -0600, you wrote:
>   MIC-E Digest 235
>
>Topics covered in this issue include:
>
> 1) tripmate gps
>   by "marv" <marv@means.net>
>
>--
>
>Date: Sun, 16 Nov 1997 13:41:00 -0600
>From: "marv" <marv@means.net>
>To: <mic-e@tapr.org>
>Subject: tripmate gps
>Message-ID: <199711161945.NAA09685@orion.means.net>
>

The following information was found on the http://www.gpss.co.uk/tripmate.htm
web page. Hope it helps.

-Dan   kf6izo@qsl.net
============ Text follows ==============
The Tripmate will not produce NMEA data until it is initiated. We don't
know why, unless
DeLorme asked Rockwell - who make the receiver - to make it difficult for
people to use Tripmate
with other software. On power up it produces output of the text ASTRAL, and
needs to receive this
text (followed by a CR) before it will switch to output of NMEA data (i.e.
sentences that start with
strings like $GPGLL, etc). Several solutions have been used, including
wiring input and output
pins together

>   in all the vast knowledge out there someone has to know how to get
>tripmate gps to send out nema string without the use of a computer. need
>help.
>   marv n0pcd
>
>
>------------------------------
>
>End of MIC-E Digest 235
>**********************
>
>

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

51. [MIC-E:1446] Re: tripmate gps

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 17 Nov 1997 11:37:11 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.879786738.alan@watsol>
Rendered body type: text/plain

> in all the vast knowledge out there someone has to know how to get
> tripmate gps to send out nema string without the use of a computer. need
> help.
> marv n0pcd
>

Short txd to rxd and voila! See the FAQ:

ftp://sundae.triumf.ca/pub/peter/tripmate.faq

Everything you always wanted to know about a tripmate and then some!
73 de Alan N2YGK

52. [MIC-E:1447] Subject: MIC-E Friendly Repeater Mods

From: BordingK@aol.com
Date: Mon, 17 Nov 1997 12:24:57 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <971117131828_1946399671@mrin44.mail.aol.com>
Rendered body type: text/plain

Subject: MIC-E Friendly Repeater Mods

AA4QI (Henry Cordes) is about to modify one of his repeaters to be MIC-E
friendly to support demonstrations of the MIC-E here in Jacksonville.

Repeaters and APRS digi are located in same rack. He is considering a diode
type matrix to hardwire tie the repeater TNC and the APRS TNC together.
Anyone been successful in that approach.

Anyone have any great ideas for other mods to mute the repeater, etc?
Suggestions would be most welcome.

Thanks in advance.

de KF4COH
Ken in Jax, FL

53. [MIC-E:1448] External antenna for GP20

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Mon, 17 Nov 1997 16:08:45 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971117.165108.13774.0.wa2ysm@juno.com>
Rendered body type: text/plain

What external antennas are available, either pre-built or do it yourself,
for
the Mic-E setup? I would like to test and experiment with mine inside
the
shack which is in my basement. Needless to say I need some sort of
outside
antenna (and probably also a source for connectors that I can extend the
coax feedline with). Anyone been down this road????

Elmer (WA2YSM@JUNO.COM)
Poughkeepsie, NY

54. [MIC-E:1449] Re: External antenna for GP20

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Mon, 17 Nov 1997 17:07:05 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.879806695.alan@watsol>
Rendered body type: text/plain

> What external antennas are available, either pre-built or do it yourself,
> for
> the Mic-E setup? I would like to test and experiment with mine inside
> the
> shack which is in my basement. Needless to say I need some sort of
> outside
> antenna (and probably also a source for connectors that I can extend the
> coax feedline with). Anyone been down this road????
>

> Elmer (WA2YSM@JUNO.COM)
> Poughkeepsie, NY
>

Hi Elmer,

Lowe makes a popular magmount active antenna. Don't recall exactly
where to get it in the US other than directly from them. Their web
page at http://www.lowe.co.uk/ lists some overseas dealers. This
is their US dealer:

USA EDCO 703 938 8105 703 938 4525
325 Mill Street NE
Vienna VA
22180

73 de Alan N2YGK

55. [MIC-E:1450] Re: tripmate gps

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Mon, 17 Nov 1997 19:58:17 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3470F10F.316D@popmail.firn.edu>
Rendered body type: text/plain

marv wrote:
>
> i do not want to use a comp[ter... i need it to stand alone... 2 &3
> together will not work ...
> i am useing tripmate with mic-e i hope but not have been sucesful.. help
> marv
>
> ----------
> > From: Jim Duncan <ku0g@kcaprs.org>
> > To: mic-e@tapr.org
> > Subject: [MIC-E:1439] Re: tripmate gps
> > Date: Sunday, November 16, 1997 3:46 PM
> >
> > Connect pins 2 and 3 together. When the Tripmate initializes it sends
> > a message "ASTRAL" and expects to see a response from the
> > computer/device it's attached to. The response is also "ASTRAL". By
> > connecting these two pins together the TM will initialize properly...
> >
> > marv wrote:
> > >
> > > in all the vast knowledge out there someone has to know how to
> get
> > > tripmate gps to send out nema string without the use of a computer.
> need
> > > help.
> > > marv n0pcd
> > >
> > > --
> > > 73 de Jim, KU0G
> > > Chairman/Coordinator
> > > Kansas City APRS Working Group, W0APR
> > > Rogue Squadron Storm Chasers
> > > Mailto:ku0g@kcaprs.org
> > > Webpage: http://www.kcaprs.org
> > > BorgNet: 1st of 10
> > >

The pins do have to be tied together, but another pin needs to be tied
'high'. I believe it is pin 4, but someone else can verify this. The
best way to do this is to power the GPS externally, most use a 5V
regulated simple supply that gets it's power from 13.8V vehicle power,
and tie the pin 4 and pin 9 (GPS power) to this regulated 5 volts.

There is a nicely done document that describes all about the Tripmate
and how to deal with it for all these situations. I don't have that
information but maybe somebody else can clue us both in. 73,

John, KN4HX

56. [MIC-E:1451] Re: Subject: MIC-E Friendly Repeater Mods

From: "Gregory H. Faust" <n4pgs@mail.com>
Date: Mon, 17 Nov 1997 21:41:46 -0600 (CST)
To: mic-e@tapr.org

Message-ID: <3.0.3.32.19971117223628.006ddc10@cstone.net>
Rendered body type: text/plain

Ken,
  Here's what we have set up in Charlottesville, VA. It sounds like a
similar repeater site situation.
Greg   N4PGS

At 12:24 PM 11/17/97 -0600, you wrote:
>
>Subject: MIC-E Friendly Repeater Mods
>
>AA4QI (Henry Cordes) is about to modify one of his repeaters to be MIC-E
>friendly to support demonstrations of the MIC-E here in Jacksonville.
>
>Repeaters and APRS digi are located in same rack. He is considering a diode
>type matrix to hardwire tie the repeater TNC and the APRS TNC together.
> Anyone been successful in that approach.
>
>Anyone have any great ideas for other mods to mute the repeater, etc?
> Suggestions would be most welcome.
>
>Thanks in advance.
>
>de KF4COH
>Ken in Jax, FL
>
>
[Attachment: APRS System at the WA4TFZ Repeater Site.doc; application/msword; 13,824 bytes]

57. [MIC-E:1452] Help-GPS or Antenna

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Wed, 19 Nov 1997 22:35:00 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971119.231957.3206.4.wa2ysm@juno.com>
Rendered body type: text/plain

I need help! My Mic-E / GPS 20 doesn't find my location.
The Mic-E seems to work fine--it keys the transmitter, sends status
messages, the Path, Msg, and Period adjustments work fine. The lights
do their thing and when I read out the signal on J2 (pin3) the sentences
from the GPS are $GPRMC..,$GPGGA..,$GPGSA..,$GPGSV..,$GPGSV..,
$PGRMV..,$PGRME.. . The data in these sentences looks OK to me, and
the hhmmss time stamp is appx. correct. BUT the lat, long put me
somewhere in India, and the type code says Nav receiver warning.

This sequence repeats every second with the time stamp updated.

How do I find out if my antenna--A short piece of coax that came with
the kit with 1.8 inches of the center conductor exposed and the
brade folded back beside the coax, is adequate or is there trouble
inside the GPS that makes the receiver deaf???? ????

I have left the unit outside on the lawn for a couple of hours and
the only thing that changes is the "hhmmss" in the first two sentences.

           Elmer (WA2YSM@JUNO.COM)

ps: For those that are interested, and I did not find the hint in the
documentation-- Make up a 9 pin D cable with pins 7,8 shorted together
and plug the signal into the read pin (is it 2 or 3-I can never
remember?).
Almost any terminal program will then read the data 4800 8N1. I use
PC-TALK and/or YAPP, but I am sure any other bare bones terminal program
will work.

58. [MIC-E:1453] Help-GPS or Antenna -Reply

From: Don Rotolo <ROTOLO@usa.mercedes-benz.com>
Date: Thu, 20 Nov 1997 09:10:23 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <s4740961.042@mail1.allegro.net>
Rendered body type: text/plain

Elmer,
I never could get a fix with the 'simple ground plane', especially a
first fix. The sentence you need to be studying is the one listing
the satellites in view, and their relative C/N ratio, GPGSV.

Bets bet: find someone with a known good antenna, borrow it and
see what happens. My first GPS20 was deaf, too. I built 5
antennas before buying one at a boat store for $130. Look
acrefully at the antenna connector, too - center pin of mine wasn't
even soldered.

Just the GPS20 alone will send out RS-232, and even Windows
Terminal can read it.

73,
Don N2IRZ <n2irz@rats.org>

>>> <mic-e@tapr.org> 11/19/97 11:35pm >>>
                            MIC-E Digest 238
I need help! My Mic-E / GPS 20 doesn't find my location.
The Mic-E seems to work fine--it keys the transmitter, sends
status
messages, the Path, Msg, and Period adjustments work fine. The
lights
do their thing and when I read out the signal on J2 (pin3) the
sentences
from the GPS are
$GPRMC..,$GPGGA..,$GPGSA..,$GPGSV..,$GPGSV..,
$PGRMV..,$PGRME.. . The data in these sentences looks OK to
me, and
the hhmmss time stamp is appx. correct. BUT the lat, long put me
somewhere in India, and the type code says Nav receiver warning.

This sequence repeats every second with the time stamp updated.

How do I find out if my antenna--A short piece of coax that came
with
the kit with 1.8 inches of the center conductor exposed and the
brade folded back beside the coax, is adequate or is there trouble
inside the GPS that makes the receiver deaf???? ????

I have left the unit outside on the lawn for a couple of hours and
the only thing that changes is the "hhmmss" in the first two
sentences.

           Elmer (WA2YSM@JUNO.COM)

ps: For those that are interested, and I did not find the hint in the
documentation-- Make up a 9 pin D cable with pins 7,8 shorted
together
and plug the signal into the read pin (is it 2 or 3-I can never
remember?).
Almost any terminal program will then read the data 4800 8N1. I
use
PC-TALK and/or YAPP, but I am sure any other bare bones
terminal program
will work.
_____

59. [MIC-E:1454] Re: Help-GPS or Antenna -Reply

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Thu, 20 Nov 1997 10:09:19 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971120.105739.3206.5.wa2ysm@juno.com>
Rendered body type: text/plain

Don, Thank you for your quick reply. Yes I too have "probed" the GPS
pin with RS232 signal on it, but my suggestion for using the J2 pin was
based upon a desire to test the unit without taking it out of the case.

I know-- who in his right mind would package a unit before it was known
to be functional? As I am sure you are aware, there are a few mechanical
adjustments that need to be made on the kit parts, and I wasn't really
sure my problem wasn't comming fron stressing the board.

Since I wrote the original query I have measured the voltage on the
center conductor of the antenna lead. It is 4.84 volts. Not bad enough
to be a real concern, but lower than I would expect. The unit draws
about 150 ma with just the pwr/fix light on (yellow).

            Elmer (WA2YSM@JUNO.COM)

60. [MIC-E:1457] Re: Help-GPS or Antenna -Reply

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Fri, 21 Nov 1997 20:22:50 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34764184.629F@popmail.firn.edu>
Rendered body type: text/plain

Don Rotolo wrote:
>
> Elmer,
> I never could get a fix with the 'simple ground plane', especially a
> first fix. The sentence you need to be studying is the one listing
> the satellites in view, and their relative C/N ratio, GPGSV.
>
> Bets bet: find someone with a known good antenna, borrow it and
> see what happens. My first GPS20 was deaf, too. I built 5
> antennas before buying one at a boat store for $130. Look
> acrefully at the antenna connector, too - center pin of mine wasn't
> even soldered.
>
> Just the GPS20 alone will send out RS-232, and even Windows
> Terminal can read it.
>
> 73,
> Don N2IRZ <n2irz@rats.org>
>
> >>> <mic-e@tapr.org> 11/19/97 11:35pm >>>
>   MIC-E Digest 238
> I need help! My Mic-E / GPS 20 doesn't find my location.
> The Mic-E seems to work fine--it keys the transmitter, sends
> status
> messages, the Path, Msg, and Period adjustments work fine. The
> lights
> do their thing and when I read out the signal on J2 (pin3) the
> sentences
> from the GPS are
> $GPRMC..,$GPGGA..,$GPGSA..,$GPGSV..,$GPGSV..,
> $PGRMV..,$PGRME.. . The data in these sentences looks OK to
> me, and
> the hhmmss time stamp is appx. correct. BUT the lat, long put me
> somewhere in India, and the type code says Nav receiver warning.
>
> This sequence repeats every second with the time stamp updated.
>
> How do I find out if my antenna--A short piece of coax that came
> with
> the kit with 1.8 inches of the center conductor exposed and the
> brade folded back beside the coax, is adequate or is there trouble
> inside the GPS that makes the receiver deaf???? ????
>
> I have left the unit outside on the lawn for a couple of hours and
> the only thing that changes is the "hhmmss" in the first two
> sentences.
>
>   Elmer (WA2YSM@JUNO.COM)
>
> ps: For those that are interested, and I did not find the hint in the
> documentation-- Make up a 9 pin D cable with pins 7,8 shorted
> together
> and plug the signal into the read pin (is it 2 or 3-I can never
> remember?).
> Almost any terminal program will then read the data 4800 8N1. I
> use
> PC-TALK and/or YAPP, but I am sure any other bare bones
> terminal program
> will work.
> _____

I tried a dipole on my Garmin 75 and it worked fine. The signals were
down to about 2/3 of what they would be with the stock antenna. The
dipole was about an inch and a quarter on a side, I forgot the exact
length, but the frequency should be about 1500 Mhz.

John, KN4HX

61. [MIC-E:1458] mic-e & oncore VP setup

From: "Fred Flowers" <fflowers@kih.net>
Date: Sat, 22 Nov 1997 18:17:26 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711230012.SAA06507@tapr.org>

Rendered body type: text/plain

On page 10 of the mic-e docs it shows internal connections
for Trimble, Garmin, & Rockwell but not Oncore. I looked in
the Oncore book and wired M-E to Oncore

1	8
3	1
4	2
5	3

Is this correct? If so how do I set up the Oncore through the M-E?
Or do I wire direct to the Oncore for setup and then install it on the
Mic-e? As far as I can tell the Mic-e does not talk to the GPS.

Thanks for any help
Fred Flowers KF4QZN
fflowers@kih.net

62. [MIC-E:1459] Putting Motorola Oncore VP GPS Engine into NMEA Format

From: "Jeffrey Komori" <jeffk@jeffk.com>
Date: Sun, 23 Nov 1997 03:46:35 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19971123014305.00838860@jeffk.com>
Rendered body type: text/plain

Well folks,

N6UOW and I were able to interface the Oncore VP GPS Engines to the Mic
Encoders. We are now trying to figure out what the commands are to put the
VPs into NMEA format. If anyone knows how to do this, please let me know.

Thanks,
Jeffrey Komori, KH6JUZ

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

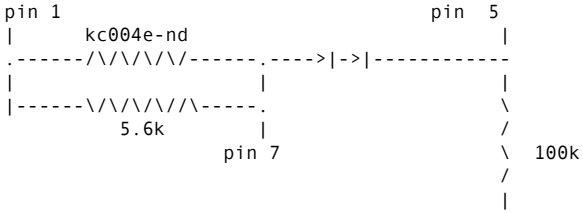
http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeffrey Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria (SMX) Fly-in

---

63. [MIC-E:1460] Telemetry

From: Tony Flusche AB6BR <TonyF@worldnet.att.net>
Date: Wed, 26 Nov 1997 21:37:24 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971126192944.006d92dc@postoffice.worldnet.att.net>
Rendered body type: text/plain

Hi all. I am trying to set up temp telemetry with my mic-e. I hooked it
up as below. But it doesn't work well. The only thing I could find in the
manual were pins 1 and 5 on page 19. Someone who has done this please
verify my connections.
Tnx in advance.



pin 2

The 5k pot is between pins 7 and 2 best I could determine.

When Timothy Leary reenters the atmosphere will he cause acid rain?

Tony Flusche AB6BR

64. [MIC-E:1461] Re: Telemetry

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 27 Nov 1997 07:08:07 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.971127080226.2995C-100000@arctic>
Rendered body type: text/plain

If pin 1 is 5 volts, pin 5 is the A/D input, then that should work. I
assume that pin 2 is ground, and that you have adjusted the Pot so that it
reads the current temperature?

 What do you mean it doesnt work very well?

de bob

On Wed, 26 Nov 1997, Tony Flusche AB6BR wrote:

>
> Hi all. I am trying to set up temp telemetry with my mic-e. I hooked it
> up as below. But it doesn't work well. The only thing I could find in the
> manual were pins 1 and 5 on page 19. Someone who has done this please
> verify my connections.
> Tnx in advance.
>
>
> pin 1   pin 5
> | kc004e-nd |
> .------/\/\/\/\/------.---->|->|------------
> | | |
> |------\/\/\/\//\-----.   \
>   5.6k | /
>   pin 7   \ 100k
>   /
> |
>   pin 2
>
> The 5k pot is between pins 7 and 2 best I could determine.
> ------
> When Timothy Leary reenters the atmosphere will he cause acid rain?
>
> Tony Flusche AB6BR
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

65. [MIC-E:1463] Re: Telemetry

From: Tony Flusche AB6BR <TonyF@worldnet.att.net>
Date: Thu, 27 Nov 1997 23:17:37 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971127211325.006bdf24@postoffice.worldnet.att.net>
Rendered body type: text/plain

Bob Bruninga wrote:

>If pin 1 is 5 volts, pin 5 is the A/D input, then that should work. I
>assume that pin 2 is ground, and that you have adjusted the Pot so that it
>reads the current temperature?
>
> What do you mean it doesnt work very well?
>
>de bob

It doesn't read current temperature. With the pot cranked up it reads 34
in a 70 degree room. All the way down reads 21. BTW I used 2 1n4001

diodes. I couldn't find doc for pins 2 and 5 in the manuel. I was hoping
I made a mistake there. Some body must have this working.

When Timothy Leary reenters the atmosphere will he cause acid rain?

Tony Flusche AB6BR

66. [MIC-E:1464] Re: Telemetry

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 28 Nov 1997 09:16:54 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <347EDF88.783443AB@amsat.org>
Rendered body type: text/plain

I built mine on an 8-pin header exactly as described in the manual and in
MIC-TEMP.BAS. Works very well over the limited temp range of my environment.

Pin 2 is Gnd and pin 5 is AD2 (check the schematic).

Ron

Tony Flusche AB6BR wrote:
>
> Bob Bruninga wrote:
>
> >If pin 1 is 5 volts, pin 5 is the A/D input, then that should work. I
> >assume that pin 2 is ground, and that you have adjusted the Pot so that it
> >reads the current temperature?
> >
> > What do you mean it doesnt work very well?
> >
> >de bob
>
> It doesn't read current temperature. With the pot cranked up it reads 34
> in a 70 degree room. All the way down reads 21. BTW I used 2 1n4001
> diodes. I couldn't find doc for pins 2 and 5 in the manuel. I was hoping
> I made a mistake there. Some body must have this working.
>
> ------
> When Timothy Leary reenters the atmosphere will he cause acid rain?
>
> Tony Flusche AB6BR

--
Ron W5RKN

also:
rparsons@bga.com

67. [MIC-E:1465] mic104 surface mount

From: "mike terry" <pitmet@ctaz.com>
Date: Fri, 28 Nov 1997 09:17:34 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199711281516.IAA21700@ctaz.com>
Rendered body type: text/plain

am involved in gps project using, what I am told, was a prototype to the
mic-e currently available. I have not been able to find documentation on
this unit other than the readme file on clement engineering disk.
downloaded manual for aprs mic-e but their are circut and control
changes.Is their anything available on this unit?

thanks,
        mike

68. [MIC-E:1466] Re: mic104 surface mount

From: David Dobbins <ddobbins@localaccess.com>
Date: Fri, 28 Nov 1997 11:19:52 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <17140280518854@Localaccess.com>
Rendered body type: text/plain

Hi Mike. The Mic-e has been in production for several months now. Details
are on the TAPR web site. I have one, and just mounted it yesterday in
second vehicle that wife drives. Powered by ignition, and all comes on
automatically w/o intervention. Is this what you were looking for?

PS, I went with the external GPS30 antenna, which is still available for
$90.

Dave/WH6YC

David S. Dobbins

December 1997

Original source file: mic-e.9712
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9712

1. [MIC-E:1469] mic-e w/gps-30

From: David Dobbins <ddobbins@localaccess.com>
Date: Sat, 6 Dec 1997 18:12:40 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <00075725915799@Localaccess.com>
Rendered body type: text/plain

Am trying to get my mic-e w/gps-30 up and running. So far I haven't seen
any GPS data. On the APRS P list I'm getting a good time reflected (Z
time), but a bunch of zero's for the posit, heading, and speed (RMC fix).

I built the small patch cable going from the GPS to the mic-e, as follows:

```
GPS-30                Mic-E
Pin 4 (serial output) Pin 3
Pin 3 (serial input)  Pin 2
Pin 5 (ground)        Pin 5
```

I am using both the Mac and DOS versions of Mic-E program and that seems
to be working just fine. My programming changes are permed.

I saw at least one mic-e tx that showed my callsign, then a "P0PPP-3"
(that's a zero). I didn't recognize this.

The path settings are for RELAY,WIDE,WIDE and MSG 2 (In service). I've
seen the "mic e inservice" transmission.

What should I check next. Dave/WH6YC


```
*************************************************************************
David S. Dobbins   *ICQ: 4161458*     Email: ddobbins@localaccess.com
P.O. Box 553                         www.localaccess.com/dobbins
Pe Ell, WA 98572                     Amateur Radio:  WH6YC  NWAPRS
(360) 291-3707                       www.localaccess.com/dobbins/aprs.htm
*************************************************************************
```


2. [MIC-E:1470] Re: mic-e w/gps-30

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Sat, 6 Dec 1997 19:20:18 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971206.201618.3582.0.wa2ysm@juno.com>
Rendered body type: text/plain

Check and see if your "FIX" light is blinking--This is the green led in
the
lower right hand corner of the Mic-E. I bet it isn't which means that
your
GPS unit is not yet hearing the birds (like mine). I may be in error on
the
led color, read your manual--I dropped mine and broke the led so I have
replaced the dual led with a single color led which now blinks once
per second when it has locked onto the birds. Before that I only had
a steady "yellow" light (both red and green on). I have had to be very
careful to locate the "mouse" in a good location to hear the birds. MY
other GPS-20 won't work at all with a plain antenna--it requires an
antenna with amplification built into it. I have used a PC and plugged
the 9 pin connector from the gps-30 into its com port. If you use a
terminal program that will work without DTR active you can monitor
the data from the gps. If you don't have such a program, short pins
7 and 8 together (I use a pair of male, female connectors to avoid
having to cut into the cable). As long as I have gone this far, I wire
a 1/8" stereo plug to the connector and plug it into the external jack.
There are a number of ways to spy on the dialog between the gps and
Mic-E. After you know what is in the data stream, you know which way
to go. Good Luck.
ps:try the "A" key--you may find your Mic-E tele report there. The
0000N/0000W still sounds like a deaf GPS.

            Elmer (WA2YSM@JUNO.COM)

On Sat, 6 Dec 1997 18:12:40 -0600 (CST) David Dobbins
<ddobbins@localaccess.com> writes:

>Am trying to get my mic-e w/gps-30 up and running. So far I haven't
>seen
>any GPS data. On the APRS P list I'm getting a good time reflected (Z
>time), but a bunch of zero's for the posit, heading, and speed (RMC
>fix).
>
>I built the small patch cable going from the GPS to the mic-e, as
>follows:
>
>GPS-30   Mic-E
>Pin 4 (serial output) Pin 3
>Pin 3 (serial input)   Pin 2
>Pin 5 (ground)   Pin 5
>
>I am using both the Mac and DOS versions of Mic-E program and that
>seems
>to be working just fine. My programming changes are permed.
>
>I saw at least one mic-e tx that showed my callsign, then a "P0PPP-3"
>(that's a zero). I didn't recognize this.
>
>The path settings are for RELAY,WIDE,WIDE and MSG 2 (In service). I've
>
>seen the "mic e inservice" transmission.
>
>What should I check next. Dave/WH6YC
>
>
>**
>David S. Dobbins   *ICQ: 4161458*   Email: ddobbins@localaccess.com
>P.O. Box 553   www.localaccess.com/dobbins
>Pe Ell, WA 98572   Amateur Radio: WH6YC NWAPRS
>(360) 291-3707
>www.localaccess.com/dobbins/aprs.htm
>**
>
>

3. [MIC-E:1471] Re: mic-e w/gps-30

From: Doug Wetzel <dwetzel@earthlink.net>
Date: Sat, 6 Dec 1997 20:15:12 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.32.19971206181023.00751f3c@earthlink.net>
Rendered body type: text/plain

Dave, my data sheet for my GPS30 says it transmits data out on pin 2 of the
DB9 and expects data input on pin 3. The Mic-E is looking for data in on
pin 3, and sends echo data when programming on pin 2. Pin 5 on both is
ground.

Check your pinouts!

Doug

At 06:12 PM 12/6/97 -0600, you wrote:
>Am trying to get my mic-e w/gps-30 up and running. So far I haven't seen
>any GPS data. On the APRS P list I'm getting a good time reflected (Z
>time), but a bunch of zero's for the posit, heading, and speed (RMC fix).
>
>I built the small patch cable going from the GPS to the mic-e, as follows:
>
>GPS-30   Mic-E
>Pin 4 (serial output) Pin 3
>Pin 3 (serial input)   Pin 2
>Pin 5 (ground)   Pin 5
>
>I am using both the Mac and DOS versions of Mic-E program and that seems
>to be working just fine. My programming changes are permed.
>
>I saw at least one mic-e tx that showed my callsign, then a "P0PPP-3"
>(that's a zero). I didn't recognize this.
>
>The path settings are for RELAY,WIDE,WIDE and MSG 2 (In service). I've
>seen the "mic e inservice" transmission.
>
>What should I check next. Dave/WH6YC
>

>
>***
>David S. Dobbins   *ICQ: 4161458*   Email: ddobbins@localaccess.com
>P.O. Box 553   www.localaccess.com/dobbins
>Pe Ell, WA 98572   Amateur Radio: WH6YC NWAPRS
>(360) 291-3707   www.localaccess.com/dobbins/aprs.htm
>***
>
>
>

4. [MIC-E:1472] Re: mic-e w/gps-30

From: David Dobbins <ddobbins@localaccess.com>
Date: Sat, 6 Dec 1997 23:02:36 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <05001042118819@Localaccess.com>
Rendered body type: text/plain

Thanks Elmer, I'll monitor the light to see if I'm getting lock. I
appreciate your response. Dave/WH6YC

****
David S. Dobbins   *ICQ: 4161458*   Email: ddobbins@localaccess.com
P.O. Box 553   www.localaccess.com/dobbins
Pe Ell, WA 98572   Amateur Radio: WH6YC NWAPRS
(360) 291-3707   www.localaccess.com/dobbins/aprs.htm
****

5. [MIC-E:1473] Re: mic-e w/gps-30

From: David Dobbins <ddobbins@localaccess.com>
Date: Sat, 6 Dec 1997 23:09:08 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <05060536118887@Localaccess.com>
Rendered body type: text/plain

I don't know why I said pin 4. I meant pin 2 for output from the GPS30,
which goes to pin 3 of the mic-e, like you said.

I had another response to check the flashing light indicating data lock.
I'll look at that tomorrow.

How did the demo go today. I had several reports from your mobile headed
south to the BEARS clubhouse.

What are your plans for Xmas break? We'd like to have you down sometime
for dinner, visit, and sleepy over.

We may try a couple 1-2 day trips over the holiday, down to Portland,
over to Spokane. Don't know yet.

Not much else to report. Awaiting my callsign change. Hoping to get
K7GPS. Dave/WH6YC

****
David S. Dobbins   *ICQ: 4161458*   Email: ddobbins@localaccess.com
P.O. Box 553   www.localaccess.com/dobbins
Pe Ell, WA 98572   Amateur Radio: WH6YC NWAPRS
(360) 291-3707   www.localaccess.com/dobbins/aprs.htm
****

6. [MIC-E:1474] Re: mic-e w/gps-30

From: Jim Duncan <ku0g@kcaprs.org>
Date: Sat, 6 Dec 1997 23:38:45 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <348A360A.A9E5B6F@kcaprs.org>
Rendered body type: text/plain

P0PP0P is the indication of null GPS data (all zeros or commas).

Be sure you've got the jumpers that enable GPS connection set right
inside the MIC-E....Good luck

David Dobbins wrote:
>
> Am trying to get my mic-e w/gps-30 up and running. So far I haven't seen
> any GPS data. On the APRS P list I'm getting a good time reflected (Z

> time), but a bunch of zero's for the posit, heading, and speed (RMC fix).
>
> I built the small patch cable going from the GPS to the mic-e, as follows:
>
> GPS-30   Mic-E
> Pin 4 (serial output) Pin 3
> Pin 3 (serial input)   Pin 2
> Pin 5 (ground)   Pin 5
>
> I am using both the Mac and DOS versions of Mic-E program and that seems
> to be working just fine. My programming changes are permed.
>
> I saw at least one mic-e tx that showed my callsign, then a "P0PPP-3"
> (that's a zero). I didn't recognize this.
>
> The path settings are for RELAY,WIDE,WIDE and MSG 2 (In service). I've
> seen the "mic e inservice" transmission.
>
> What should I check next. Dave/WH6YC
>
> **
> David S. Dobbins   *ICQ: 4161458*   Email: ddobbins@localaccess.com
> P.O. Box 553   www.localaccess.com/dobbins
> Pe Ell, WA 98572   Amateur Radio: WH6YC NWAPRS
> (360) 291-3707   www.localaccess.com/dobbins/aprs.htm
> **

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

7. [MIC-E:1475] Updated Manual

From: "Alan K. Unangst" <alanwc7r@primenet.com>
Date: Mon, 15 Dec 1997 12:29:20 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19971215112306.007bf890@pop.primenet.com>
Rendered body type: text/plain

Has an updated manual come out lately, and if so where can I download it?

In advance, Thank you! Please reply directly to avoid congestion on the SIG.

73, Alan
Alan K. Unangst, WC7R
(520) 445-1465 / FAX (520) 445-5755
E-mail: alanwc7r@primenet.com
Packet: WC7R@KB7FRV

8. [MIC-E:1476] RE: Updated Manual

From: Doug Hogarth <DougHo@gte.net>
Date: Mon, 15 Dec 1997 18:01:06 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <01BD0971.FDE30530.DougHo@gte.net>
Rendered body type: text/plain

I haven't heard of one, but one discrepency that I informed TAPR:
The part listed as 8-pin machine screw DIP telemetry prototyping header
wasn't included in my kit. And when I requested one, I got a regular
looking 8-pin DIP socket. So maybe I misunderstand the term "screw" in the
part name.

Did you get such a part? Just curious

On Monday, December 15, 1997 10:29 AM, Alan K. Unangst
[SMTP:alanwc7r@primenet.com] wrote:
> Has an updated manual come out lately, and if so where can I download it?

9. [MIC-E:1478] Re: NMEA Ops with the ONCORE

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Wed, 17 Dec 1997 18:45:46 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <19971217.194229.4254.3.wa2ysm@juno.com>
Rendered body type: text/plain

Doug: We got your message with its attachment. BUT! what
do us poor slobs on JUNO do with it? Page after page of
pure gibberish.

            Elmer (WA2YSM@JUNO.COM)

10. [MIC-E:1479] Re: MIC-E digest 253

From: "Doug McKinney" <buoy@mcktech.com>
Date: Fri, 19 Dec 1997 01:27:09 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199712190825.AAA18047@mail.redshift.com>
Rendered body type: text/plain

> From: mic-e@tapr.org
> To: mic-e@tapr.org
> Subject: [MIC-E:1478] MIC-E digest 253
> Date: Thursday, December 18, 1997 3:33 PM
>
>   MIC-E Digest 253
>
> Topics covered in this issue include:
>
>   1) Re: NMEA Ops with the ONCORE
>   by wa2ysm@juno.com (Elmer M Sharp)
>
> --
>
> Date: Wed, 17 Dec 1997 19:42:27 -0500
> From: wa2ysm@juno.com (Elmer M Sharp)
> To: mic-e@tapr.org
> Cc: mic-e@tapr.org
> Subject: Re: NMEA Ops with the ONCORE
> Message-ID: <19971217.194229.4254.3.wa2ysm@juno.com>
>
> Doug: We got your message with its attachment. BUT! what
> do us poor slobs on JUNO do with it? Page after page of
> pure gibberish.
>
>   Elmer (WA2YSM@JUNO.COM)

Boy, that is a good question. I saw the page and I saw pure gibberish. So
the question is "How come my attached file did not show up as an attached
file but instead was printed as pure gibberish?". I don't know what
happened. It appears that attached files can't be attached in this form???
 I need an answer before I try sending it again. I guess I'll have to
'plain text' the file, well no I can't, because of the format and symbols
used.   SO, out there, how do I attach the file?
Doug KC3RL, 408-663-4999.
>
>
> ------------------------------
>
> End of MIC-E Digest 253
> ************************

11. [MIC-E:1480] Re: MIC-E digest 253

From: "J. Cassells" <johncass@email.msn.com>
Date: Fri, 19 Dec 1997 12:45:02 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <0334b28431813c7UPIMSSMTPUSR01@email.msn.com>
Rendered body type: text/plain

Doug,
    Your DOC file came through fine to me. Problem arise when the RX e-mail
program is not compatable with the senders. Perhaps you could post it on
the TAPR ftp area for download instead if sending it e-mail.

BRGDS & TNX
John C

-----Original Message-----
From: Doug McKinney <buoy@mcktech.com>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Friday, December 19, 1997 2:33 AM
Subject: [MIC-E:1479] Re: MIC-E digest 253

>

>
>----------
>> From: mic-e@tapr.org
>> To: mic-e@tapr.org
>> Subject: [MIC-E:1478] MIC-E digest 253
>> Date: Thursday, December 18, 1997 3:33 PM
>>
>>   MIC-E Digest 253
>>
>> Topics covered in this issue include:
>>
>>   1) Re: NMEA Ops with the ONCORE
>> by wa2ysm@juno.com (Elmer M Sharp)
>>
>> --
>>
>> Date: Wed, 17 Dec 1997 19:42:27 -0500
>> From: wa2ysm@juno.com (Elmer M Sharp)
>> To: mic-e@tapr.org
>> Cc: mic-e@tapr.org
>> Subject: Re: NMEA Ops with the ONCORE
>> Message-ID: <19971217.194229.4254.3.wa2ysm@juno.com>
>>
>> Doug: We got your message with its attachment. BUT! what
>> do us poor slobs on JUNO do with it? Page after page of
>> pure gibberish.
>>
>>   Elmer (WA2YSM@JUNO.COM)
>
>Boy, that is a good question. I saw the page and I saw pure gibberish. So
>the question is "How come my attached file did not show up as an attached
>file but instead was printed as pure gibberish?". I don't know what
>happened. It appears that attached files can't be attached in this form???
> I need an answer before I try sending it again. I guess I'll have to
>'plain text' the file, well no I can't, because of the format and symbols
>used.   SO, out there, how do I attach the file?
>Doug KC3RL, 408-663-4999.
>>
>>
>> ------------------------------
>>
>> End of MIC-E Digest 253
>> ************************
>
>

12. [MIC-E:1481] Attached files

From: Jeff Brenton <jeffb@stans.com>
Date: Fri, 19 Dec 1997 18:50:57 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <349B17CC.A47@stans.com>
Rendered body type: text/plain

File attachments will usually work ONLY if you're NOT accessing the list
via the "Digest" mode. When things arrive attached to the individual
messages, they're "attached files", but, in digest mode, the attachment
is just left in MIME-encoded gibberish form, and added to the digest.

The nature of the digest mode is such that mail programs cannot
recognize embedded "attached" files, so they don't convert them back to
binary...

The same thing applies to people whose mail programs are set to send
messages as "multipart MIME-encoded", so that HTML "enhancements" can be
used. They come through as garbage, instead.

13. [MIC-E:1482] Re: MIC-E digest 253

From: "Steven R. Bible" <srbible@gate.net>
Date: Fri, 19 Dec 1997 19:23:19 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971219202117.00889420@pop.gate.net>
Rendered body type: text/plain

At 12:45 PM 12/19/97 -0600, you wrote:
>Doug,
>   Your DOC file came through fine to me. Problem arise when the RX e-mail
>program is not compatable with the senders. Perhaps you could post it on
>the TAPR ftp area for download instead if sending it e-mail.

The file is available from:

    ftp://ftp.tapr.org/tapr/gps/nmea.ops.rtf

Hope this helps everyone.

 - Steve, N7HPR
 (n7hpr@tapr.org)

14. [MIC-E:1483] NMEA Ops Location at tapr.org

From: "Doug McKinney" <buoy@mcktech.com>
Date: Fri, 19 Dec 1997 22:13:11 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <199712200507.VAA21863@mail.redshift.com>
Rendered body type: text/plain

I my digest 252, I provided the NMEA Ops as an attachment and some people
couldn't copy binary attachments.
This file can be found in three places:
http://www.tapr.org/tapr/html/tac2.html
http://wwwtapr.org/gps/oncore.html
ftp://ftp.tapr.org/tapr/gps/nmea.ops.rtf
I used MS Office 95 to print the original for a customer, but didn't put it
in pdf or ASCII text. Trying to 'save as' NMEA ops.txt was a disaster and
would require complete retyping and formatting for ASCII! So, if you can't
get it from the above files, call me (408)663-4999, I can fax or mail, so
long as there are only a few requests!!! Yea never know how many have
needs until you put something on the web and if you promise to serve all by
fax or mail it could be $$$$ for me.
Good Luck and 73's Doug

15. [MIC-E:1484] MIM Position on Demand

From: Lumpy - AB□GD <lumpy@digitalcartography.com>
Date: Thu, 25 Dec 1997 01:01:30 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34A20366.6F0A@digitalcartography.com>
Rendered body type: text/plain

Greetings All -

Trying to wire a position on demand momentary switch
into my MIM/GPS stand alone tracker. Docs suggest
analog 3 pin to ground should send an immediate
position. But I get nothing.

Any suggestions please?

Thanks, Lumpy
--
http://www.digitalcartography.com

16. [MIC-E:1485] MIC-E & Digipeaters

From: Dan Welch <amersci@flash.net>
Date: Thu, 25 Dec 1997 02:01:09 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971224170427.0097cd40@pop.flash.net>
Rendered body type: text/plain

I'm trying to check out my second MIC-E & I can't get it
into any digipeaters.

When I look at the decoded packet the path has entries such as

SSTXRV-2 or SSTXSS the last two characters and the number vary
depending on where I set the path and message switches

The programmed path string is "RELAY,WIDE,WIDE,WIDE,GATE,WIDE,WIDE"

Unfortunately I do not have the first unit here for comparison
but I am certain that it was getting digipeated properly.

In addition to the digipeater problem, the unit does not
transmit any symbols other than a large red cross no matter what
I program into it for MYSymbol.

The LAT-LONG portion of the packets is correct.
Does anybody have an idea what is going wrong here?

Thanks for your help.

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

17. [MIC-E:1486] Nominations Sought for TAPR Board of Directors

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 25 Dec 1997 18:49:45 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <v03130309b0c8a625a448@[206.138.226.73]>
Rendered body type: text/plain

Nominations Sought for TAPR Board of Directors
(as printed in 1997 PSR #68, p. 34)

Tucson Amateur Packet Radio is incorporated in the State of Arizona as a non-profit scientific and educational institution. It is recognized by the IRS as a 501(c)3 tax-exempt organization for these same purposes. TAPR is governed by a 9-member Board of Directors. Each member of the Board serves a three year term. Every year three positions are up for election.

Board members are expected to attend two board meetings held in conjunction with the Dayton Hamvention and the ARRL and TAPR Digital Communications Conference. They participate in the decision-making process and provide guidance to the officers. They receive no pay and must defray most of their own expenses to attend meetings. Board members should be prepared to be active in the continuing Board deliberations, which are conducted via the Internet. Active participation in TAPR activities by Board members is important to the furtherance of the objectives of TAPR. The officers of TAPR are elected by the members of the Board at the annual Board of Directors meeting.

The current members of the Board of Directors and their expiration dates of their terms are:

*	John Ackermann, AG9V	1998	Vice President
*	Jim Neely, WA5LHS	1998	Treasurer
*	Barry McLarnon, VE3JF	1998	
	Steve Bible, N7HPR	1999	
	Gary Hauge, N4CHV	1999	
	Bob Hansen, N2GDE	1999	PSR Editor
	Greg Jones, WD5IVD	2000	President
	John Koster, W9DDD	2000	
	Mel Whitten, K0PFX	2000	

Nominations are now open for seats expiring in March 1998 (marked with an asterisk).

To place a person in nomination, please remember that he or she must be a member of TAPR. Confirm that the individual is willing to have their name placed in nomination. Send that person's name (or your own if you wish to nominate yourself) along with your call and their call, telephone numbers, mailing address, and Internet address. The person nominated should submit a short biographical sketch to be published along with the ballot.

Nominations and biographical sketches should be submitted to the TAPR office no later than December 31st, 1997.

Ballots will be mailed with the next PSR. TAPR will again use an Internet ballot, so read your ballot carefully. Results will be announced on March 30th, 1998.

Responsibilities of a board member include:
1) Attendance at both board meetings each year.
2) Regular participation with the continuous session of the board (currently held over the Internet). Typically this requires a minimum of 3 hours a week, although sometimes much more is required during active board discussions.
3) Participation with TAPR projects as volunteered. Board members, while not required, are involved with various project management, ongoing organization and/or supervision/liaison positions. Active board participation with various projects make many of the most important projects and tasks possible. Board members are expected to take an active

part in TAPR in some form.

All nominated members will be placed on the ballot and the highest vote receivers will be placed in the open board positions. If elected, two board meetings in 1998 will be held. One will be during Dayton Hamvention and the other during the ARRL and TAPR Digital Communications Conference. All directors shall serve for a term of three years.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
e-mail: tapr@tapr.org web: <http://www.tapr.org/>
ftp: ftp.tapr.org
phone: 940-383-0000 fax: 940-565-2544

---

18. [MIC-E:1487] mic-e and Large Red Symbol.

From: "Randy Perkins" <ranperk@ghgcorp.com>
Date: Fri, 26 Dec 1997 12:30:14 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <01bd1229$8a486000$0a6f22ab@randy>
Rendered body type: multipart/alternative

[No readable text body. See the preserved original monthly archive.]
[Inline non-text content: multipart/alternative; 2,215 bytes]

---

19. [MIC-E:1488] Re: MIC-E digest 258

From: Dan Welch <amersci@flash.net>
Date: Sat, 27 Dec 1997 01:26:57 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19971226232715.00986830@pop.flash.net>
Rendered body type: text/plain

Randy,
I have version 1.07 firmware.

I am using both APRSa4 v 8.08 and Winaprs v 2.1.0 and they both behave the same.

-Dan

At 01:08 AM 12/27/97 -0600, you wrote:
> MIC-E Digest 258
>
>Topics covered in this issue include:
>
> 1) mic-e and Large Red Symbol.
> by "Randy Perkins" <ranperk@ghgcorp.com>
>
>---
>
>Date: Fri, 26 Dec 1997 12:10:25 -0600
>From: "Randy Perkins" <ranperk@ghgcorp.com>
>To: "mic-e" <mic-e@tapr.org>
>Subject: mic-e and Large Red Symbol.
>Message-ID: <01bd1229$8a486000$0a6f22ab@randy>
>
>This is a multi-part message in MIME format.
>
>------=_NextPart_000_002C_01BD11F7.3FADF000
>Content-Type: text/plain;
> charset="iso-8859-1"
>Content-Transfer-Encoding: quoted-printable
>
>To Dan Welch,
>I also have a couple of mic-e units, (the beta versions with the =
>upgraded software), and I am using APRSa4 program and both units only =
>will display the large red cross symbol, I noticed all mic-e units that =
>I receive show the same. Suspect that the APRSa4 program will not decode =
>the symbol properly, Noticed that all mic-e units seem to send a "plus =
>(+)" sign imbedded into the position text and I think that the APRSa4 =
>program is decoding the (+) sign as the Cross Symbol no matter what you =
>have the mic-e unit programmed for.
>What version of APRS do you run and what version of software in your =
>mic-e unit do you have, I think that the latest is version 1.07. ?

>73 de Randy, WB5KCM..
>ranperk@ghgcorp.com
>
>

73, de KF6IZO

Dan Welch
kf6izo@qsl.net

20. [MIC-E:1489] Re: MIC-E digest 259

From: "William G. McNish Jr." <bill.mcnish@hdtinfo.com>
Date: Sun, 28 Dec 1997 06:20:57 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34A63457.4A1E@hdtinfo.com>
Rendered body type: text/plain

Hello from WD8OHA, Bill

Is there someone out there using the Kenwood TM-742 or TM-642 ?

I need to setup the jumpers for the PTT line.

My e-mail is bill.mcnish@hdtinfo.com

73!

21. [MIC-E:1490] Re: MIC-E digest 259

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sun, 28 Dec 1997 07:27:21 -0600 (CST)
To: mic-e@tapr.org
Message-ID: <34A65319.D1BB7129@amsat.org>
Rendered body type: text/plain

The PTT line is pin 5 as documented in the manual

Ron

William G. McNish Jr. wrote:
>
> Hello from WD8OHA, Bill
>
> Is there someone out there using the Kenwood TM-742 or TM-642 ?
>
> I need to setup the jumpers for the PTT line.
>
> My e-mail is bill.mcnish@hdtinfo.com
>
> 73!

--
Ron W5RKN

also:
rparsons@bga.com

January 1998

Original source file: mic-e.9801
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9801

1. TEST

```
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sat, 17 Jan 1998 20:41:32 -0600
To: " MIC-E Beta "<mic-e@tapr.org>
Message-ID: <v03130353b0e71c531cfc@[208.134.134.40]>
Rendered body type: text/plain
```

```
TEST

Greg

-----
Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Any sufficiently advanced technology is indistinguishable from
a rigged demo.
```

2. Re: [MIC-E:1496] MIC-E digest 264

```
From: Don Pfister KA0JLF <dpfister@kc.net>
Date: Sun, 18 Jan 1998 17:16:59 -0600
To: mic-e@tapr.org
Message-ID: <199801182316.RAA14595@tut.o2.net>
Rendered body type: text/plain
```

```
Test take 2.

Not much activity on here lately. I think I need to update my MIC-E (beta
test unit).

73 de Don

At 08:53 PM 1/17/98 -0600, you wrote:
>                            MIC-E Digest 264
>
>Topics covered in this issue include:
>
>  1) TEST
>       by "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
>
>------------------------------------------------------------------------
>
>Date: Sat, 17 Jan 1998 20:41:32 -0600
>From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
>To: " MIC-E Beta "<mic-e@tapr.org>
>Subject: TEST
>Message-ID: <v03130353b0e71c531cfc@[208.134.134.40]>
>
>TEST
>
>Greg
>
>-----
>Greg Jones, WD5IVD
>Austin, Texas
>wd5ivd@tapr.org
>http://www.tapr.org/~wd5ivd
>
>Any sufficiently advanced technology is indistinguishable from
>a rigged demo.
>
>
>
>------------------------------
>
>End of MIC-E Digest 264
>**********************
>
>

[Signature File]
```

Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
Email=dpfister@kc.net or donp@netlab.org
http://www.netlab.org/habitat
http://www.kc.net/~dpfister
http://www.netlab.org/~donp
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
built...

3. Re: [MIC-E:1497] Re: MIC-E digest 264

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 19 Jan 1998 13:46:21 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980119134359.20916O-100000@arctic>
Rendered body type: text/plain

I think I may have seen a bug in recent APRSdos that is not picking up the
Mic-E BText. and may in fact be turning the BText into a posit out in the
packifc or whereever...

If someone is looking for something to do with their Mic-E, then do some
tests. APRSdos will NOT save the original packet, once it has mistakenly
converted the BText to a crazy posit. so please capture the RAW packet in
dumb terminal mode and also then send me the POSIT it makes out of the
BText. THis only happens when BTEXT is included in a Mic-E posit...

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

4. Interface Mic-E with ICOM IC 27H Transceiver

From: "Howard E. King" <hking@cyberlink-inc.com>
Date: Tue, 27 Jan 1998 17:26:03 -0500
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19980127172603.007a87d0@cyberlink-inc.com>
Rendered body type: text/plain

Need Some Help!

I'm trying to get my mic-e to work with my ICOM IC27H. The cables seem to
be wired correctly. When I connect the mic-e to the radio, the radio
immediatly begins scanning and the PTT doesn't work. Does anyone have any
suggestions?

Thanks & 73

Howard W9OCK

5. Re: [MIC-E:1499] Interface Mic-E with ICOM IC 27H Transceiver

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Tue, 27 Jan 98 17:43:25 -0500
To: <mic-e@tapr.org>
Message-ID: <199801272243.QAA09438@tapr.org>
Rendered body type: text/plain

On 1/27/98 5:34 PM Howard E. King (hking@cyberlink-inc.com) wrote:

>I'm trying to get my mic-e to work with my ICOM IC27H. The cables seem to
>be wired correctly. When I connect the mic-e to the radio, the radio
>immediatly begins scanning and the PTT doesn't work. Does anyone have any
>suggestions?
>
You have it wired wrong...somehow you are closing the up or down line.
Check your wiring and the jumper header.

Steve

6. Re: [MIC-E:1499] Interface Mic-E with ICOM IC 27H Transceiver

From: Wes Johnston <kd4rdb@usa.net>
Date: Tue, 27 Jan 1998 17:59:52 -0500
To: mic-e@tapr.org
Message-ID: <3.0.32.19980127175939.00724750@mail.eagnet.com>
Rendered body type: text/plain

check your ground, and check that thje ptt wire is not connected to the
scan pin in the mic... your original mic probably has scan up/dn buttons.

Howard E. King wrote:
>Need Some Help!
>
>I'm trying to get my mic-e to work with my ICOM IC27H. The cables seem to
>be wired correctly. When I connect the mic-e to the radio, the radio
>immediatly begins scanning and the PTT doesn't work. Does anyone have any
>suggestions?
>
>Thanks & 73
>
>Howard W9OCK
>
>
Wes
Email: mailto:kd4rdb@usa.net
EU ax25: mailto:kd4rdb@on1kul-10.ampr.org
WEB: http://www.qsl.net/kd4rdb
ICQ: 273949
Lat/Long: 3209.36N/08109.88W
Updated on 11/18/97: Track cars and events on ham radio!
http://www.qsl.net/kd4rdb/aprs.htm

7. Re: [MIC-E:1500] Re: Interface Mic-E with ICOM IC 27H Transceiver

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Tue, 27 Jan 98 18:00:46 EST
To: mic-e@tapr.org, hking@cyberlink-inc.com
Message-ID: <CMM.0.90.4.885942046.alan@watsol>
Rendered body type: text/plain

> On 1/27/98 5:34 PM Howard E. King (hking@cyberlink-inc.com) wrote:
>
> >I'm trying to get my mic-e to work with my ICOM IC27H. The cables seem to
> >be wired correctly. When I connect the mic-e to the radio, the radio
> >immediatly begins scanning and the PTT doesn't work. Does anyone have any
> >suggestions?
> >
> You have it wired wrong...somehow you are closing the up or down line.
> Check your wiring and the jumper header.
>
> Steve
>

Also read the documentation of the pinouts in the Mic-E manual with a
grain of salt. I know there was a bit of confusion about pin numbering
on some models. Finally, make sure you are looking in to the opening of
the RJ45 when you count pin numbers from the left. (Or is it looking
at the back?? I think you get my drift!)
/a

8. Re: [APRSSIG:20481] 1 TNC / 2 Radios

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Tue, 27 Jan 1998 16:25:26 -0800
To: aprssig@tapr.org, mic-e@tapr.org
Cc: kc5jgv@juno.com, jeffk@jeffk.com
Message-ID: <3.0.5.32.19980127162526.00874db0@jeffk.com>
Rendered body type: text/plain

This is easily done with a Kantronics Dual-port TNC such as the KPC-2400,
KAM(+), DataEngine, of KPC-9612(+). They currently don't make a dual port
1200 BPS TNC but the 9612+ (which includes a 9600 BPS and 1200 BPS port)
has a third modem header to which Kantronics in planning to release several
different kinds of modems including an KAM-like HF modem, a 1200 BPS modem
and higher speed modems. The firmware includes commands for "Gate"ing from
one port to another.

We are planning to press into service 7 KPC-9612+ with the third 1200 BPS
modem for the 1998 Baker-to-Vegas Challenge Cup Relay (
http://www.baker-to-vegas.org) to accomodate the TAPR Mic-E's which we
will outfit into all of our follow vans and shuttle vans. One 1200 BPS
port will be tied to a VHF transceiver for our APRS network while the
second 1200 BPS port will be listening to our UHF voice repeater for Mic-E
packets (which will then be gated over to the VHF APRS channel. We won't
be using the 9600 BPS port this year but plan to use it next year as the
APRS backbone channel.

73,

Jeffrey Komori
KH6JUZ
Member of the Technical Committee for B2V
Fremont/Union City/Alameda County Amateur Radio Support

At 05:51 PM 1/27/98 -0600, kc5jgv wrote:
>I wonder if there is a simple way to use 1 TNC to drive 2 radios (2m and
>6m) and have them cross band repeat? I guess the only problem would be if
>both radios recieved at the same time. Anyone doing this already?

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeffrey Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria (SMX) Fly-in

---

9. Re: [APRSSIG:20481] 1 TNC / 2 Radios

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Tue, 27 Jan 1998 16:30:57 -0800
To: aprssig@tapr.org, mic-e@tapr.org
Cc: jeffk@jeffk.com, kc5jgv@juno.com
Message-ID: <3.0.5.32.19980127163057.00880100@jeffk.com>
Rendered body type: text/plain

>From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
>Subject: Re: [APRSSIG:20481] 1 TNC / 2 Radios
>
>This is easily done with a Kantronics Dual-port TNC such as the KPC-2400,
                                                                ****
Oops, I meant KPC-4, not KPC-2400.

>KAM(+), DataEngine, of KPC-9612(+).

73,
Jeffrey Komori
KH6JUZ
Member of the Technical Committee for B2V
Fremont/Union City/Alameda County Amateur Radio Support

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeffrey Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy

http://www.smxgig.org/ The Annual AVSIG Santa Maria (SMX) Fly-in

10. Querying MIC-E

From: Wes Johnston <kd4rdb@usa.net>
Date: Tue, 27 Jan 1998 20:55:45 -0500
To: mic-e@tapr.org
Message-ID: <3.0.32.19980127205535.006afcfc@mail.eagnet.com>
Rendered body type: text/plain

I just had a flash! the MIC-E is a TX only TNC, but it IS hooked to RX audio on the radio. Why not put a DTMF decoder inside the box w/ MIC-E, and wire it to the TX rate pot in such a way that it would trigger a beacon? How about modifying the code in the MIC E, and wire the DTMF decoder to one of the digital inputs. Then the MIC E would send a position beacon sometime within the next 2 mins just like aprs on a PC when ever it heard a specific DTMF tone. Not an elegant solution, but when I want to query all MIC-E mobiles, all I have to do is hit one DTMF key on the repeater
Wes
Email: mailto:kd4rdb@usa.net
EU ax25: mailto:kd4rdb@on1kul-10.ampr.org
WEB: http://www.qsl.net/kd4rdb
ICQ: 273949
Lat/Long: 3209.36N/08109.88W
Updated on 11/18/97: Track cars and events on ham radio!
http://www.qsl.net/kd4rdb/aprs.htm

11. Re: [MIC-E:1499] Interface Mic-E with ICOM IC 27H Transceiver

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Wed, 28 Jan 1998 07:42:50 -0500
To: mic-e@tapr.org
Message-ID: <34CF266B.63AF@popmail.firn.edu>
Rendered body type: text/plain

Howard E. King wrote:
>
> Need Some Help!
>
> I'm trying to get my mic-e to work with my ICOM IC27H. The cables seem to
> be wired correctly. When I connect the mic-e to the radio, the radio
> immediatly begins scanning and the PTT doesn't work. Does anyone have any
> suggestions?
>
> Thanks & 73
>
> Howard W9OCK

There is at least one wire in the microphone cable which will cause the scanning to occur. Check that you are not on that wire. That should be the only thing to make the scanning take place.

John,
KN4HX

12. Interface MIC-E with TM-V7A????

From: WCovey@aol.com
Date: Fri, 30 Jan 1998 20:43:21 EST
To: mic-e@tapr.org
Cc: aprssig@tapr.org
Message-ID: <7923f421.34d281bb@aol.com>
Rendered body type: text/plain

Has anybody on the sig (s) had any success interfacing the MIC-E (production unit) with the Kenwood TM-V7A transceiver using the data port. If so would you please share the information. I have had no luck what-so-ever getting the two to talk using the separate data port. Thanks in advance. Also if you are using the beta unit with this unit your information would be useful as well. Again thanks. Bill, W1GTT

February 1998

Original source file: mic-e.9802
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9802

1. Re: [MIC-E:1507] Interface MIC-E with TM-V7A????

From: Tom_Kinahan@ne.3com.com
Date: Mon, 2 Feb 1998 09:35:18 -0500
To: mic-e@tapr.org
Message-ID: <8525659F.004DD058.00@usboxmta.ne.3com.com>
Rendered body type: text/plain

Bill,

I just picked up a tm-v7a too, and first thing I found is that there's no rx-audio on the mic connection, and I have HUGE amounts of hum on the transmitted signal. I've got the radio wired to the power distribution area, the MIC-E getting power from the cigarette lighter. All this with the new version MIC-E. Next I'll see what I get when I run the MIC-E from a separate battery.

I figured I'd try to get it working with the mic connector first, then venture in with the data connection.

I've seen people report they got it working on the data connection. I assume you've set the data mode up, as 1200 on VHF... which is where I'd start.

Good luck!

- Tom Kinahan N1CPE

p.s. Oh thanks for sending the emergency message from ur mic-e the other day. It helped us all understand how well that function works! I started getting calls right away about PCs beeping from all over!!

WCovey@aol.com on 01/30/98 08:44:14 PM

Please respond to mic-e@tapr.org

To: mic-e@tapr.org
cc: (bcc: Tom Kinahan/US/3Com)
Subject: [MIC-E:1507] Interface MIC-E with TM-V7A????

Has anybody on the sig (s) had any success interfacing the MIC-E (production
unit) with the Kenwood TM-V7A transceiver using the data port. If so would you please share the information. I have had no luck what-so-ever getting the
two to talk using the separate data port. Thanks in advance. Also if you are
using the beta unit with this unit your information would be useful as well.
Again thanks. Bill, W1GTT

2. Re: [MIC-E:1507] Interface MIC-E with TM-V7A????

From: Tom_Kinahan@ne.3com.com
Date: Mon, 2 Feb 1998 11:37:56 -0500
To: mic-e@tapr.org
Message-ID: <8525659F.005B4A00.00@usboxmta.ne.3com.com>
Rendered body type: text/plain

Bill,

I just found this.... on tm-v7a... -

- Tom Kinahan N1CPE

Date: Sun, 14 Dec 1997 15:42:00 -0500
From: Arte Booten <n2zrc@webspan.net>
To: aprssig@tapr.org
Subject: TM-V7a w/APRS Responses
Message-ID: <34944498.963670E5@webspan.net>

Hi all,
     Thanks to many for the responses to my questions. As some asked me to get back to them if I got any (boy, DID I!) I'm re-posting the ones that weren't sent to the SIG for all to learn and enjoy. 73
==========
W2HOB RESPONSE: Hi Arte... Pin 3, on the Kenwood PG5A cable is the PTT. Pin 5 is the received data to go into the TNC. Pin 6 is the Extrernal Squelch line but puts out +5vdc where most TNC's are looking for a GND to inhibit PTT, so a small kludge circuit must be built to provide an interface... most operators don't use this lead anyway.
This jack functions independently of the volume control (very nice) so the volume control can be turned all the way down while still listening to the other side.
==========
WH6YC RESPONSE:
I've been using the TM-V7A for several months now. Once the radio is set up for 145.79 and says DATA, the TNC will key the radio and go "ON AIR". I don't recall any additional settings, other than what's in the manual. Please note that if you're talking on the voice side (2M only) and it's time for a TNC burst, the data channel takes priority and transmits, temporarily cutting off your voice TX. I have mine set up as a tracker now full time and if I'm going to talk on voice side I'll turn off the TNC during the chat, then turn it back on when the chat is done.
- -
I don't know if this will help or not, but I'm using the
radio with a Kantronics KPC-3 cabled as follows:

TM-V7A	KPC-3
1	1
2	9
3/5	5

==========
N3XKU RESPONSE:
        OK All you have to do is put 145.790 on the left side, then whatever freq, VHF or UHF you want for voice on the right side, press the Right band select button so that the PTT is over the right (non-APRS) side. Press MNU and click to item 15 'Data Transfer', Press the '>' and click to '.2' 'Data Band', press SET to turn it ON. Then press MNU and you should see the word -Data- over the left side (145.790) and PTT over the right.
        I assume you know how to switch between VHF/UHF and VHF/VHF. If you want to do voice on 2m and packet on 2m just press the right band select button and hit F + [Cont. Sel.] and VHF/UHF will change to VHF/VHF.   (Cont. Sel. is the little button between the two vol-ume controls.)
Note: if you are set up for VHF/VHF and DAta Band is on. Say you are talking on 2m voice (the right side) and APRS is going to transmit, it will cut you off to transmit the packet then return the mic to you, so anyone listening will lose a few syllables if you don't watch the radio carefully.
        BTW Make sure PM Auto Store is on so you don't lose all your settings when you turn off the radio!!! {Page 39 in th manual}
==========
--
              Mr. Arte Booten mailto:n2zrc@webspan.net
                Packet: N2ZRC@KB2VLX.#BRONX.NY.USA.NA
       Local APRS Elmer (Automatic Position Reporting System)
                EC/RO for Bronx County (NYC ARES/RACES)

WCovey@aol.com on 01/30/98 08:44:14 PM

Please respond to mic-e@tapr.org

To: mic-e@tapr.org
cc: (bcc: Tom Kinahan/US/3Com)
Subject: [MIC-E:1507] Interface MIC-E with TM-V7A????

Has anybody on the sig (s) had any success interfacing the MIC-E
(production
unit) with the Kenwood TM-V7A transceiver using the data port. If so would
you please share the information. I have had no luck what-so-ever getting
the
two to talk using the separate data port. Thanks in advance. Also if you
are
using the beta unit with this unit your information would be useful as
well.
Again thanks. Bill, W1GTT

3. New MIC-E user

From: PJMpaul@aol.com
Date: Mon, 9 Feb 1998 15:25:48 EST
To: mic-e@tapr.org
Message-ID: <c2c8b89d.34df664e@aol.com>
Rendered body type: text/plain

Just finished the Mic-e Project   Feels like I am young and doing Heath Kits
Again

It works Fine   Got it to KEERCHunk a couple of Packets over the Tnc   and
Programed it with out any trouble

?? The Gps 20 unit came without any connectors or wiring   Where Can I Get
Some??   I need the Header from the Board and the Connector for the GPS engine
and the small jumper fot the antena from the board to the rear of the unit...
 Also Where can I get a Good Antena for the 1.5 Gig Gps

??   What Gives with the 6 Pin Connector near the P1 programing plug that
seems like the telemetry input ... is there any documentation on this

???   Can anyone tell me if the ICOM 2700H   radio realy has the Recieve
audio on pin 7 like the book says   Cant find it there on mine ...

Thanks for any help   73's   Kb2vgg   PJMPAUL@AOL.COM

4. Re: [MIC-E:1510] New MIC-E user

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Mon, 09 Feb 1998 16:24:27 -0500
To: mic-e@tapr.org
Message-ID: <34DF740B.1654@popmail.firn.edu>
Rendered body type: text/plain

PJMpaul@aol.com wrote:
>
> Just finished the Mic-e Project   Feels like I am young and doing Heath Kits
> Again
>
> It works Fine   Got it to KEERCHunk a couple of Packets over the Tnc   and
> Programed it with out any trouble
>
> ?? The Gps 20 unit came without any connectors or wiring   Where Can I Get
> Some??   I need the Header from the Board and the Connector for the GPS engine
> and the small jumper fot the antena from the board to the rear of the unit...
> Also Where can I get a Good Antena for the 1.5 Gig Gps
>
> ??   What Gives with the 6 Pin Connector near the P1 programing plug that
> seems like the telemetry input ... is there any documentation on this
>
> ???   Can anyone tell me if the ICOM 2700H   radio realy has the Recieve
> audio on pin 7 like the book says   Cant find it there on mine ...
>
> Thanks for any help   73's   Kb2vgg   PJMPAUL@AOL.COM

I have an Icom 2700 and the audio is indeed where they say it is. Good
luck,

John, KN4HX

5. beta test mic-e and RS-242 radio

From: Don Pfister KA0JLF <dpfister@kc.net>
Date: Mon, 9 Feb 1998 21:22:49 -0600
To: mic-e@tapr.org
Message-ID: <199802100322.VAA01028@tut.o2.net>
Rendered body type: text/plain

I sent pinouts in when I hooked up my beta test Mic-E, but now can't find my
pins for the RS mobile radio. I think it is a THX-242, something like that,
an 8 pin modular plug.

I downloaded the Mic-E manual in PDF hoping it would be in there, but it
requires Acrobat reader 3.x I only have 2.1 installed. I downloaded the
reader v3.1 but don't have enough HD space to load it. I had to remove 2.1
to download 3.1. HELP ;-)

Does anyone have the pinouts for the RS mobile radio 8 pin mic plug?

thanks,
Don

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
Email=dpfister@kc.net or donp@netlab.org
http://www.netlab.org/habitat
http://www.kc.net/~dpfister
http://www.netlab.org/~donp
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
built...

6. Re: [MIC-E:1510] New MIC-E user

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 9 Feb 1998 22:52:31 -0600
To: " MIC-E Beta "<mic-e@tapr.org>
Message-ID: <v03130301b10558f69564@[206.133.131.24]>
Rendered body type: text/plain

Hi Paul.

Sorry about that. I told Dorothy the wrong information the other night and
thus you didn't get any pre-built cable in the kit. The cable will be
shipped tomorrow.

Cheers - Greg

>Just finished the Mic-e Project   Feels like I am young and doing Heath Kits
>Again
>
>It works Fine   Got it to KEERCHunk a couple of Packets over the Tnc   and
>Programed it with out any trouble
>
>?? The Gps 20 unit came without any connectors or wiring   Where Can I Get
>Some??   I need the Header from the Board and the Connector for the GPS engine
>and the small jumper fot the antena from the board to the rear of the unit...
> Also Where can I get a Good Antena for the 1.5 Gig Gps
>
>??   What Gives with the 6 Pin Connector near the P1 programing plug that
>seems like the telemetry input ... is there any documentation on this
>
>???   Can anyone tell me if the ICOM 2700H   radio realy has the Recieve
>audio on pin 7 like the book says   Cant find it there on mine ...
>
>
>Thanks for any help   73's   Kb2vgg   PJMPAUL@AOL.COM

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

7. Re: [MIC-E:1512] beta test mic-e and RS-242 radio

From: Boyd Prestwood <w2hob@mosquito.com>
Date: Tue, 10 Feb 1998 08:15:21 -0500
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19980210081521.006b4af8@mail.mosquito.com>
Rendered body type: text/plain

At 09:27 PM 2/9/98 -0600, you wrote:
>I sent pinouts in when I hooked up my beta test Mic-E, but now can't find my
>pins for the RS mobile radio. I think it is a THX-242, something like that,

>an 8 pin modular plug.

W2HOB RESPONSE: Page-11 of the HTX-212 booklet illustrates the RJ-45 8-pin
modular connector as viewed from the front, LEFT to RIGHT, as follows:

8 - Data (CPU)
7 - 7.5v (500mA max)
6 - PTT
5 - MIC
4 - Control
3 - Clock (CPU)
2 - GROUND
1 - Tone

Pin-8 is on the LEFT and Pin-1 is on the RIGHT. This is a great radio. I
have three (3) of them. They get a little flukey in high power setting with
constant key down, but for packet, they're great. I even have one doing
duty as a standalone WIDE digi and while not constant key down, the PTT
operates off-n-on a lot as would be expected for a busy WIDE.

Visit your local Radio Shack. They will order a booklet for you, but I
don't know the cost. It won't be outrageous though!

Have fun es 73 de Boyd W2HOB
w2hob@mosquito.com

8. Re: [MIC-E:1514] Re: beta test mic-e and RS-242 radio

From: "Don Pfister KA0JLF <donp@jerryc.sound.net>" <donp@jerryc.sound.net>
Date: Tue, 10 Feb 1998 17:53:05 -0600 (CST)
To: Boyd Prestwood <w2hob@mosquito.com>
Cc: mic-e@tapr.org
Message-ID: <Pine.LNX.3.95.980210175148.8771E-100000@jerryc.sound.net>
Rendered body type: text/plain

THANKS Boyd. I have my manual somewhere; it's probably with my pinouts ;-)

Sorry for the bother, but THANKS!!

On Tue, 10 Feb 1998, Boyd Prestwood wrote:

> At 09:27 PM 2/9/98 -0600, you wrote:
> >I sent pinouts in when I hooked up my beta test Mic-E, but now can't find my
> >pins for the RS mobile radio. I think it is a THX-242, something like that,
> >an 8 pin modular plug.
>
> W2HOB RESPONSE: Page-11 of the HTX-212 booklet illustrates the RJ-45 8-pin
> modular connector as viewed from the front, LEFT to RIGHT, as follows:
>
> 8 - Data (CPU)
> 7 - 7.5v (500mA max)
> 6 - PTT
> 5 - MIC
> 4 - Control
> 3 - Clock (CPU)
> 2 - GROUND
> 1 - Tone
>
> Pin-8 is on the LEFT and Pin-1 is on the RIGHT. This is a great radio. I
> have three (3) of them. They get a little flukey in high power setting with
> constant key down, but for packet, they're great. I even have one doing
> duty as a standalone WIDE digi and while not constant key down, the PTT
> operates off-n-on a lot as would be expected for a busy WIDE.
>
> Visit your local Radio Shack. They will order a booklet for you, but I
> don't know the cost. It won't be outrageous though!
>
> Have fun es 73 de Boyd W2HOB
> w2hob@mosquito.com
>

9. APRS tracker

From: Saskatchewan Roughriders <riders@sk.sympatico.ca>
Date: Fri, 13 Feb 1998 18:25:34 -0600
To: mic-e@tapr.org
Message-ID: <34E4E47E.5E0FB0CE@sk.sympatico.ca>
Rendered body type: text/plain

Greetings all:

I am currently in the process of scanning the internet for equipment to
build a tracker. These trackers will be used for Search & Rescue, Civic
Emergency and Civic events.

MFJ has a data radio (MFJ8621X1) and TAPR has the Mic-E which can house
a gps oem card.

Has anyone used these two devices in the construction of a tracker and
if so how do you rate the equipment?

It would appear from the dimensions of both units that the Mic-E will
fit pefectly on top of the MFJ8621X1 data radio.

Any comments recieved would be helpful.

David Dunster, VE5DGD
Regina Emergency Communication Team

10. [MIC-E:1516] APRS tracker

From: HERBERT PERRINE <WD8DLQ@compuserve.com>
Date: Sun, 15 Feb 1998 20:37:41 -0500
To: "INTERNET:mic-e@tapr.org" <mic-e@tapr.org>
Message-ID: <199802152038_MC2-3369-1CA0@compuserve.com>
Rendered body type: text/plain

I understand that Maxon plans to build the MIC-E and GPS units into their
commercial radios. That might be a better approach for search and rescue
with two less units to carry.

11. Re: [MIC-E:1517] APRS tracker

From: Jim Duncan <ku0g@kcaprs.org>
Date: Sun, 15 Feb 1998 20:10:41 -0600
To: mic-e@tapr.org
Message-ID: <34E7A021.C9E6E28A@kcaprs.org>
Rendered body type: text/plain

Where did you get this information? Sounds like something worth getting
REAL serious over!

HERBERT PERRINE wrote:
>
> I understand that Maxon plans to build the MIC-E and GPS units into their
> commercial radios. That might be a better approach for search and rescue
> with two less units to carry.

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

12. RE: [MIC-E:1517] APRS tracker

From: Saskatchewan Roughrider Football Club <riders@sk.sympatico.ca>
Date: Mon, 16 Feb 1998 07:37:54 -0600
To: "'mic-e@tapr.org'" <mic-e@tapr.org>
Message-ID: <01BD3AAD.EF06DEC0@regnsk01d05020147.sk.sympatico.ca>
Rendered body type: text/plain

Garmin has a vhf / gps radio as well but I doubt they will do the same.
Problem is most of these type of configuration will be out of the range of
hams with low incomes. However hats off to the first amatuer radio
manufacturer that put 2m/gps/mic-e into one unit !

From: HERBERT PERRINE [SMTP:WD8DLQ@compuserve.com]
Sent: Sunday, February 15, 1998 1:54 PM
To: mic-e@tapr.org
Subject: [MIC-E:1517] APRS tracker

I understand that Maxon plans to build the MIC-E and GPS units into their
commercial radios. That might be a better approach for search and rescue
with two less units to carry.

13. Garmin radio

From: riders <riders@sk.sympatico.ca>
Date: Mon, 16 Feb 1998 07:52:03 -0600
To: mic-e@tapr.org
Message-ID: <34E84483.E68B0089@sk.sympatico.ca>
Rendered body type: text/plain

Greetings all:

For those that haven't seen it, the Garmin GPSCOM170 is a VHF/GPS radio.
>From the site description you can order a pc interface cable so that it
could work with APRS.

Don't know what it would take to make it work for 2m with the ability to
xmit positions.

The site for garmin is: http://www.garmin.com

Its about the only combination VHF/GPS that I have seen.

signed

Dave Dunster, VE5DGD

14. Re: [MIC-E:1519] RE: APRS tracker

From: Jim Duncan <ku0g@kcaprs.org>
Date: Mon, 16 Feb 1998 10:39:07 -0600
To: mic-e@tapr.org
Message-ID: <34E86BAB.865773E2@kcaprs.org>
Rendered body type: text/plain

Garmin discontinued these radios over a year ago....

Saskatchewan Roughrider Football Club wrote:
>
> Garmin has a vhf / gps radio as well but I doubt they will do the same.
> Problem is most of these type of configuration will be out of the range of
> hams with low incomes. However hats off to the first amatuer radio
> manufacturer that put 2m/gps/mic-e into one unit !
>
> ----------
> From: HERBERT PERRINE [SMTP:WD8DLQ@compuserve.com]
> Sent: Sunday, February 15, 1998 1:54 PM
> To: mic-e@tapr.org
> Subject: [MIC-E:1517] APRS tracker
>
> I understand that Maxon plans to build the MIC-E and GPS units into their
> commercial radios. That might be a better approach for search and rescue
> with two less units to carry.

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers
Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

15. Re: [MIC-E:1520] Garmin radio

From: Will KB9JTT <aprs@rocketmail.com>
Date: Mon, 16 Feb 1998 12:22:45 -0800 (PST)
To: mic-e@tapr.org
Message-ID: <19980216202245.27817.rocketmail@web4.rocketmail.com>
Rendered body type: text/plain

---riders <riders@sk.sympatico.ca> wrote:
>
> Greetings all:
>
> For those that haven't seen it, the Garmin GPSCOM170
> is a VHF/GPS radio. From the site description you
> can order a pc interface cable so that it
> could work with APRS.
>
> Don't know what it would take to make it work for
> 2m with the ability to xmit positions.
>
> The site for garmin is: http://www.garmin.com
>

> Its about the only combination VHF/GPS that I have
> seen.

There are others, and the radio side is always either
a VHF-AM air band radio (like this one) or a VHF-FM
marine band two-way; neither works on the 2-meter ham
band, nor can either be easily modified for such a use.

73 de KB9JTT

_____
DO YOU YAHOO!?
Get your free @yahoo.com address at http://mail.yahoo.com

16. Copy of: Re: APRS tracker

From: HERBERT PERRINE <WD8DLQ@compuserve.com>
Date: Mon, 16 Feb 1998 17:57:06 -0500
To: "Jim Dunkan,KU0G" <mic-e@tapr.org>
Message-ID: <199802161758_MC2-338B-61E2@compuserve.com>
Rendered body type: text/plain

---------- Forwarded Message ----------

From: HERBERT PERRINE, 74532,1163
TO: INTERNET:brownrj@kaiwan.com, INTERNET:brownrj@kaiwan.com
DATE: 2/16/98 5:40 PM

RE: Copy of: Re: APRS tracker

RE: Where GPS/MIC-E commercial available?
     I found this information in the 1997 Pac-Comm amateur radio products catalog. See internet address of http://www.paccom.com   also.   This is what PacComm says, " PacComm now offers the (R) Maxon SM-2000 Series of mobile radios to the amateur community. The SM-2000 Series are easily modified for 9600 baud operation. PacComm engineers are currently working on a version of the MicEncoder (see page 2 of the catalog) that will be interfaced with a GPS reveiver and be embedded in the Maxon radio to produce a complete, all-in-one mobile APRS tracking unit."   It is noted that the SM-2000 series meets Mil standards and offers VHF model @ 1-3 watts and 1-25 watts and a UHF model at the same wattages.
I have not contacted PacComm further to see when the integrated model is available.
Herb Perrine, WD8DLQ

17. Page 12 of Mic-E Manual

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Tue, 17 Feb 1998 15:17:10 -0800
To: mic-e@tapr.org
Cc: jeffk@jeffk.com
Message-ID: <3.0.5.32.19980217151710.00861c10@jeffk.com>
Rendered body type: text/plain

What does the D/O column mean on page 12 of the Mic-E manual?

I'm trying to set-up my Mic-E so that it'll use a digi path of gate,wide,wide.
I've programmed the Mic-E with "VIA GATE,WIDE,WIDE".

What positions should the knobs for PATH & MSG be in?

Thanks for any assistance in deciphering the charts in the manual.

73,
Jeffrey Komori, KH6JUZ

_____

264 North Whisman Road #16,   Mountain View,   CA   94043-3930

MCSE   KH6JUZ   PP-ASEL

mailto:jeffk@jeffk.com   http://www.jeffk.com/jeffk.html

_____

                    KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/ B-to-V Challenge Cup Relay, APRS Support
http://www.borlase.com/   Charles Borlase Enterprise
http://www.esperanto.org/   Esperanto - The International Language
http://www.hawastsoc.org/   Hawaiian Astronomical Society
http://www.hpcug.org/   Hawaii PC Users Group

```
http://www.jeffk.com/           Jeff Komori's Info-Superhighway Reststop
http://www.pclg.org/            Presbyterian Church of Los Gatos
http://www.pdarrl.org/          Pacific Division of the ARRL
http://www.recdotaviation.org/  Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/           Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/         Rob Scott - The Unix Guy
http://www.smxgig.org/          The Annual AVSIG Santa Maria(SMX) Fly-in
_____________________________________________________________________________
```

18. Mic-E paths

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Feb 1998 09:16:53 -0500 (EST)
To: Mic-E@tapr.org
Message-ID: <Pine.SOL.3.96.980218091332.23007F-100000@arctic>
Rendered body type: text/plain
```

```
On Tue, 17 Feb 1998, Jeffrey Komori - KH6JUZ wrote:

> I've programmed the Mic-E with "VIA GATE,WIDE,WIDE".

*** ANSWER:  1) This path makes no sense

2)  If you are on HF, then nothing beyond GATE,WIDE is encouraged.
Infact, GATE,WIDE,WIDE is severly discouraged.  See HF.txt
3)  The Mic-E will not work on HF (It is 300 baud)
4)  If you are on VHF, then ANY gating from VHF to HF is normally
discouraged
5)  If you are on VHF, then it makes no sense to go via GATE,WIDE,WIDE
since there are NO WIDES on HF.
6)  DIGIPEATING is strongly discouraged on HF so if you still intend on
overruling #4, then a simple GATE will do...

But I also strongly defend your right to gate via VHF if you are on a trip
and want to report your non-routine travels.  In this case, I think you
want the path of WIDE,WIDE,GATE.  THerefore
you program the Mic-E with the path of WIDE,GATE,WIDE,WIDE,WIDE,GATE
This way you can select path 0 = none
                            1 = WIDE
                            2 = WIDE,GATE
                            6 = WIDE,WIDE,GATE
Notice that positions 3,4,5,7 are not used since they are nonsense
paths in this application.

 > What positions should the knobs for PATH & MSG be in? >
> Thanks for any assistance in deciphering the charts in the manual.
>
> 73,
> Jeffrey Komori, KH6JUZ
> _____________________________________________________________________________
>
> 264 North Whisman Road #16,       Mountain View,      CA       94043-3930
>
> MCSE                              KH6JUZ                            PP-ASEL
>
> mailto:jeffk@jeffk.com                    http://www.jeffk.com/jeffk.html
> _____________________________________________________________________________
>
>                     KH6JUZ Enterprise [web hosting for]:
>
> http://www.baker-to-vegas.org/        B-to-V Challenge Cup Relay, APRS Support
> http://www.borlase.com/               Charles Borlase Enterprise
> http://www.esperanto.org/             Esperanto - The International Language
> http://www.hawastsoc.org/             Hawaiian Astronomical Society
> http://www.hpcug.org/         Hawaii PC Users Group
> http://www.jeffk.com/         Jeff Komori's Info-Superhighway Reststop
> http://www.pclg.org/          Presbyterian Church of Los Gatos
> http://www.pdarrl.org/                Pacific Division of the ARRL
> http://www.recdotaviation.org/        Usenet's rec.aviation Goes to Reno
> http://www.svnpa.org/         Silicon Valley Network Prof. Assoc.
> http://www.unixguy.com/               Rob Scott - The Unix Guy
> http://www.smxgig.org/                The Annual AVSIG Santa Maria(SMX) Fly-in
> _____________________________________________________________________________
>

APRSdos REPLY/COMMENT:

Reply mail addr:   wb4apr@amsat.org
US mail address:   115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY:    http://web.usna.navy.mil/~bruninga/dayton.html
```

See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

19. Re: Page 12 of Mic-E Manual

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Wed, 18 Feb 1998 10:12:28 -0800
To: Bob Bruninga <bruninga@nadn.navy.mil>
Cc: mic-e@tapr.org, aprssig@tapr.org
Message-ID: <3.0.5.32.19980218101228.008594e0@jeffk.com>
Rendered body type: text/plain

At 09:22 AM 2/18/98 -0500, you wrote:
>On Tue, 17 Feb 1998, Jeffrey Komori - KH6JUZ wrote:
>
>> The DE has been programmed to "Gate" packets heard on the UHF voice
>> repeater to 144.39 if it hears a "GATE" in the digi path. The reverse of
>> Gating from 2m to UHF won't happen because the UHF voice repeater's receive
>> audio ONLY is hooked up to port 1 of the DE. That is why I want the Mic-E
>> to use a path of GATE,WIDE,WIDE.
>>
>> Does this make sense, now?
>
>Yes and no. Yes, I see now what you are doing, but no,in my opinion, in
>APRS the word GATE is a reserved word for use in dual port TNC "GATING"
>between HF and VHF. I think using the MYGate callsign here of "GATE" is
>going to cause nothing but problems. Not technically, but everyone who
>sees it is going to think the wrong thing and comment. Also if you ever
>use your Mic-E on any 2 meter freq, then it will be gated to HF
>automatically by ANY nearby GATE and then everyone will jump on you for
>the same reason that I did. So my recommmendation is to change that
>MYGate callsign at the repeater to "RELAY" and then both your Mic-E and
>the REPEATER are compatbile with everyone else in the APRS system....

Okay, I should have stated "exactly" what I really wanted. I used the term
GATE,WIDE,WIDE because I didn't want to add too much information for what I
was asking. However, since the term GATE "implies" gating to HF, I'll
relent. I am actually using MICE,WIDE,WIDE. Yes, yes, I know, THAT is
also NOT a recognized path but that is what we are using, for now. RELAY,
I think, will also confuse the issue since other stations use it that don't
relay Mic-E packets from a voice channel to the APRS channel. Using MICE,
is direct, unconfusing path option, I believe.

What is the consensus of this SIG about what path ID to use in a dual-port
TNC hooked up to a voice repeater's receiver on one port and a 2m
transceiver on the other port for gating Mic-E packets to the APRS channel?
 I will, of course, follow what "the consensus" is so that travellers will
be able to use our Mic-E gateways here in the San Francisco Bay Area.

73,
Jeffrey Komori
KH6JUZ
Member of the Technical Committee for B2V
Fremont/Union City/Alameda County Amateur Radio Support

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.borlase.com/	Charles Borlase Enterprise
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeff Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria(SMX) Fly-in

---

20. Re: Page 12 of Mic-E Manual

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 18 Feb 1998 23:46:17 -0500 (EST)
To: Jeffrey Komori - KH6JUZ <jeffk@jeffk.com>
Cc: mic-e@tapr.org, aprssig@tapr.org
Message-ID: <Pine.SOL.3.96.980218233954.11205C-100000@arctic>
Rendered body type: text/plain

On Wed, 18 Feb 1998, Jeffrey Komori - KH6JUZ wrote:

> Okay, I should have stated "exactly" what I really wanted. I used the term
> GATE,WIDE,WIDE because I didn't want to add too much information for what I
> was asking. However, since the term GATE "implies" gating to HF, I'll
> relent. I am actually using MICE,WIDE,WIDE. Yes, yes, I know, THAT is
> also NOT a recognized path but that is what we are using, for now. RELAY,
> I think, will also confuse the issue since other stations use it that don't
> relay Mic-E packets from a voice channel to the APRS channel. Using MICE,
> is direct, unconfusing path option, I believe.

APRSdos REPLY/COMMENT: If you use MICE, then you condem that Mic-E to
only be used on that one repeater only. It is useless anywhere else
without reporgramming from a LapTop. If however, the voice repeater uses
the digipeating callsign of RELAY as recommended, then the Mic-E can be
used virtually anywhere in the APRS world since ALL aprs digipeaters and
stations will recognize it.

Once you have a Mic-E installed in your car, you will use it as intended
through your voice repeater. BUT whenever you are out of range of that
repeater, you will switch that radio over to 145.79 and kerchunk everynow
and then so that you can be tracked. This is why it is recommended to
have RELAY in the voice repeater. In fact, my Mic-e is probably used 90%
of the time over kerchunking 145.79 when I am not on the one Mic-E voice
repeater in my area.   Just my opinion...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

21. Built-in GPS

From: Russ Brown <brownrj@kaiwan.com>
Date: Thu, 26 Feb 1998 18:13:06 +0000
To: mic-e@tapr.org
Message-ID: <34F5B0B2.B456EAED@kaiwan.com>
Rendered body type: text/plain

The MIC-E shown at http//www.tapr.org/tapr/html/mic-e.html has a
built-in Garmin GPS-20. Is this the best choice for a built-in? Where
is the best source for one? Does TAPR sell them?
Thanks,
Russ Brown
KB6LUD

22. Re: [MIC-E:1528] Built-in GPS

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Thu, 26 Feb 1998 21:25:22 -0500
To: <mic-e@tapr.org>
Message-ID: <199802270225.UAA03924@tapr.org>
Rendered body type: text/plain

On 2/26/98 9:20 PM Russ Brown (brownrj@kaiwan.com) wrote:

>The MIC-E shown at http//www.tapr.org/tapr/html/mic-e.html has a
>built-in Garmin GPS-20. Is this the best choice for a built-in? Where
>is the best source for one? Does TAPR sell them?

for $10 more, the Garmin 25 is a better choice, it is the 12 channel
model, otherwise the same...

Steve K4HG

23. Re: [MIC-E:1528] Built-in GPS

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 26 Feb 1998 23:15:39 -0600
To: mic-e@tapr.org
Message-ID: <v03130316b11bfc18744e@[207.43.172.66]>
Rendered body type: text/plain

Check http://www.tapr.org/gps for the current list of GPS OEM units we have
available.

The GPS-20 is okay and we only have a few units left of them and you save a
little money, the GPS-25 is a better since it is multichannel, the ONCORE
is the best of the units we have, but you pay the most for the performance
and probably some other features you might not use on the MIC-E bnut would
on the TAC-2 and DGPS kits.

Cheers - Greg, WD5IVD

>The MIC-E shown at http//www.tapr.org/tapr/html/mic-e.html has a
>built-in Garmin GPS-20. Is this the best choice for a built-in? Where
>is the best source for one? Does TAPR sell them?
>Thanks,
>Russ Brown
>KB6LUD

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   ICQ: 8651948
http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

24. Personality Jumper/Yaesu FT2400

From: Warren BOUDRIE <web@frontiernet.net>
Date: Fri, 27 Feb 1998 09:20:58 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980227092058.007d6da0@pop3.frontiernet.net>
Rendered body type: text/plain

Ref: Mic-e manual, page 9

  I'd appreciate any information regarding how to set the Personality DIP
Header for my Yaesu FT-2400H that has an RJ-45 mike connector. (Ref Pg 9 of
Manual)

MIC-E FUNCTION	MICE DIP HEADER	YAESU FT-2400
Mic Power	16	?
Radio/PTT gnd	15	?
Microphone PTT	14	?
Receiver Audio	13	?
Microphone audio	12	?
Microphone gnd	11	?

Thanks in advance!!

73 de Warren AA2LQ - Near Rochester NY.

Wide Area Digis in this area on 144.39: KB2WYA Rochester
                                         WX3P   Naples
                                         WA2DQL-1 Albion

    We expect to have a Mic-e/Voice digi in the area soon

25. Re: [MIC-E:1528] Built-in GPS

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 27 Feb 98 10:25:50 EST
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.888593150.alan@watsol>
Rendered body type: text/plain

> The MIC-E shown at http//www.tapr.org/tapr/html/mic-e.html has a
> built-in Garmin GPS-20. Is this the best choice for a built-in? Where
> is the best source for one? Does TAPR sell them?
> Thanks,
> Russ Brown
> KB6LUD
>

The best choice for a GPS is a 12 channel parallel unit. That is the current
state of the art that can be found in the Garmin 12-XL, GPS III, DeLorme
Tripmate, etc.

None of these are available at a bargain price as a built-in like the GPS-20

is. The GPS-20 is an 8 channel serial unit. The difference between the
parallel and serial models is the speed of satellite acquisition and
re-acquisition after loss of signal (e.g. when driving in urban environments).
There are probably other differences, but suffice it to say the way to go
these days is 12 channel parallel for the best GPS receiver. They are not
necessarily all that expensive either, depending on features.... DeLorme
Tripmate is $100 and, like the built-in, has no display, buttons or anything.
Unlike the builtin, the unit comes in an ugly bright yellow package that
goes on your dashboard and it has no convenient means of adding an external
antenna or DGPS correction signal.

73 de Alan N2YGK

26. Re: [MIC-E:1529] Re: Built-in GPS

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 27 Feb 98 10:26:18 EST
To: mic-e@tapr.org
Cc: mic-e@tapr.org
Message-ID: <CMM.0.90.4.888593178.alan@watsol>
Rendered body type: text/plain

> On 2/26/98 9:20 PM Russ Brown (brownrj@kaiwan.com) wrote:
>
> >The MIC-E shown at http//www.tapr.org/tapr/html/mic-e.html has a
> >built-in Garmin GPS-20. Is this the best choice for a built-in? Where
> >is the best source for one? Does TAPR sell them?
>
> for $10 more, the Garmin 25 is a better choice, it is the 12 channel
> model, otherwise the same...
>
> Steve K4HG
>

Ignore my previous message. Wasn't aware of the GPS 25. Thanks Steve!
/a

27. Re: [MIC-E:1532] Re: Built-in GPS

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Fri, 27 Feb 1998 12:12:28 -0500
To: <mic-e@tapr.org>
Message-ID: <199802271712.LAA05027@tapr.org>
Rendered body type: text/plain

On 2/27/98 10:31 AM Alan Crosswell (alan@watsun.cc.columbia.edu) wrote:

>None of these are available at a bargain price as a built-in like the GPS-20
>is. The GPS-20 is an 8 channel serial unit.

TAPR sells the GPS-20 for $169, and the GPS-25 for $179. (The 25 is a 12
channel parallel receiver.

Steve K4HG

28. Re: [MIC-E:1531] Personality Jumper/Yaesu FT2400

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 27 Feb 1998 17:42:30 +0000
To: mic-e@tapr.org
Message-ID: <34F6FB06.428AC3CE@amsat.org>
Rendered body type: text/plain

Tell me what functions are on which pin of the RJ-45 (see p. 9 for pinout) and
I can fill in the matrix for you.

Ron

Warren BOUDRIE wrote:
>
> Ref: Mic-e manual, page 9
>
>   I'd appreciate any information regarding how to set the Personality DIP
> Header for my Yaesu FT-2400H that has an RJ-45 mike connector. (Ref Pg 9 of
> Manual)
>
>   MIC-E FUNCTION   MICE DIP HEADER   YAESU FT-2400
>
>
>   Mic Power   16   ?
>   Radio/PTT gnd   15   ?
>   Microphone PTT   14   ?

```
>              Receiver Audio            13                    ?
>              Microphone audio          12                    ?
>              Microphone gnd            11                    ?
>
> Thanks in advance!!
>
> 73 de Warren AA2LQ - Near Rochester NY.
>
> Wide Area Digis in this area on 144.39:  KB2WYA         Rochester
>                                          WX3P           Naples
>                                          WA2DQL-1       Albion
>
>     We expect to have a Mic-e/Voice digi in the area soon

--
Ron W5RKN

also:
rparsons@bga.com
```

29. Re: [MIC-E:1535] Re: Personality Jumper/Yaesu FT2400

From: Warren BOUDRIE <web@frontiernet.net>
Date: Fri, 27 Feb 1998 15:46:56 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980227154656.007ccb50@pop3.frontiernet.net>
Rendered body type: text/plain

```
Hi Ron:
  Many thanks for the rapid response.  My problem is that I'm not sure what
functions are on the pins coming out of the radio. I was hoping that
someone else using the mic-e with a similar type Yaesu would have the info
to fill in the matrix.  Perhaps, I don't really understand your reply.  Am
I missing something?

73 de Warren AA2LQ

At 11:45 AM 2/27/98 -0600, you wrote:
>Tell me what functions are on which pin of the RJ-45 (see p. 9 for pinout)
and
>I can fill in the matrix for you.
>
>Ron
>
>Warren BOUDRIE wrote:
>>
>> Ref:  Mic-e manual, page 9
>>
>>   I'd appreciate any information regarding how to set the Personality DIP
>> Header for my Yaesu FT-2400H that has an RJ-45 mike connector. (Ref Pg 9 of
>> Manual)
>>
>>              MIC-E FUNCTION       MICE DIP HEADER       YAESU FT-2400
>>
>>
>>              Mic Power                 16                    ?
>>              Radio/PTT gnd             15                    ?
>>              Microphone PTT            14                    ?
>>              Receiver Audio            13                    ?
>>              Microphone audio          12                    ?
>>              Microphone gnd            11                    ?
>>
>> Thanks in advance!!
>>
>> 73 de Warren AA2LQ - Near Rochester NY.
>>
>> Wide Area Digis in this area on 144.39:  KB2WYA         Rochester
>>                                          WX3P           Naples
>>                                          WA2DQL-1       Albion
>>
>>     We expect to have a Mic-e/Voice digi in the area soon
>
>--
>Ron W5RKN
>
>also:
>rparsons@bga.com
>
>
>
```

30. Yaesu FT2400H/mic-e

From: Warren BOUDRIE <web@frontiernet.net>
Date: Sat, 28 Feb 1998 11:04:41 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980228110441.007c5990@pop3.frontiernet.net>
Rendered body type: text/plain

I'm having a devil of a time trying to figure out how to wire up the
personality header for my Yaesu FT-2400H. If anyone out there uses that
radio (or perhaps the 2500) with the mic-e, I'd appreciate hearing from you
with info on how to wire up the personality header.

73 de Warren AA2LQ

31. Re: [MIC-E:1537] Yaesu FT2400H/mic-e

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sat, 28 Feb 1998 16:27:15 +0000
To: mic-e@tapr.org
Message-ID: <34F83AE1.5A396D0C@amsat.org>
Rendered body type: text/plain

This was submitted by Steve np3c:

Mic power pin #16 to #3
Radio/PTT gnd pin #15 to #4
Microphone PTT pin #14 to #6

Receiver Audio pin #13 to #7
Microphone audio pin # 12 to #5
Microphone gnd pin #11 to #4

Ron

Warren BOUDRIE wrote:
>
> I'm having a devil of a time trying to figure out how to wire up the
> personality header for my Yaesu FT-2400H. If anyone out there uses that
> radio (or perhaps the 2500) with the mic-e, I'd appreciate hearing from you
> with info on how to wire up the personality header.
>
> 73 de Warren AA2LQ

--
Ron W5RKN

also:
rparsons@bga.com

32. Re: [MIC-E:1538] Re: Yaesu FT2400H/mic-e

From: Warren BOUDRIE <web@frontiernet.net>
Date: Sat, 28 Feb 1998 12:40:00 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980228124000.007bb7a0@pop3.frontiernet.net>
Rendered body type: text/plain

Many thanks Ron!!

I'm going to go and solder up the connections right now.

73 de Warren AA2LQ

At 10:33 AM 2/28/98 -0600, you wrote:
>This was submitted by Steve np3c:
>
>Mic power pin #16 to #3
>Radio/PTT gnd pin #15 to #4
>Microphone PTT pin #14 to #6

>
>Receiver Audio pin #13 to #7
>Microphone audio pin # 12 to #5
>Microphone gnd pin #11 to #4
>
>Ron
>
>Warren BOUDRIE wrote:
>>
>> I'm having a devil of a time trying to figure out how to wire up the

>> personality header for my Yaesu FT-2400H. If anyone out there uses that
>> radio (or perhaps the 2500) with the mic-e, I'd appreciate hearing from you
>> with info on how to wire up the personality header.
>>
>> 73 de Warren AA2LQ
>
>--
>Ron W5RKN
>
>also:
>rparsons@bga.com
>
>
>

March 1998

Original source file: mic-e.9803
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9803

1. GPS acquire

From: GStory@icomply.com
Date: Mon, 2 Mar 1998 09:57:54 -0600
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B8CC@lew_prods1.icomply.com>
Rendered body type: text/plain

Hello everyone. I have recently finished a mic-e kit and am using the
garmin 20. Does anyone in North Texas know how long that it takes to get
aquision on the satellites?
Thanks and 73
KC5GOI
gstory@icomply.com

2. Re: [MIC-E:1540] GPS acquire

From: "Stephen C. Schwarm" <schwarm@mitre.org>
Date: Mon, 02 Mar 1998 11:33:18 -0500
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19980302113318.0070decc@spectre.mitre.org>
Rendered body type: text/plain

On a newly started up receiver it can take as long as
15 min. I had a receiver off for six months and it
timed out before it got the satellites. I restart it
then after about 5 minutes it acquired the satellites.
>From that time on it only took a few minutes to get the
satellites. Don't forget that the signal won't go
through much. Even fiberglass will not allow the
signal though. Trying doing it out-doors the first time.

At 10:10 AM 3/2/98 -0600, you wrote:
>Hello everyone. I have recently finished a mic-e kit and am using the
>garmin 20. Does anyone in North Texas know how long that it takes to get
>aquision on the satellites?
>Thanks and 73
>KC5GOI
>gstory@icomply.com
>

73's
Steve

Steve Schwarm, W3EVE
w3eve@amsat.org

3. Re: [MIC-E:1541] Re: GPS acquire

From: rwf <rwf@BSRG.org>
Date: Mon, 02 Mar 1998 14:03:42 -0500
To: mic-e@tapr.org
Message-ID: <199803021905.OAA12188@camel8.mindspring.com>
Rendered body type: text/plain

Expect 45 minutes or so on a brand new receiver. They think they are in
Kansas when you first get them, and unless you are closeby, they have no
idea which satellites are available.

Turn it on in a very clear area with not trees or buildings- then go away
for 2 hours.

When you come back, you'll probably be locked on.

Remember this is a poor receiver to begin with (one channel, scanning) and
as the other writer said- turning it off and back on if it loses lock will
get it going again.

There is a reason they no longer make the 1 channel engines!

73

Ralph

4. Re: [MIC-E:1540] GPS acquire

From: rbost@itexas.net (Roy Bost)
Date: Mon, 2 Mar 1998 16:18:15 -0600
To: <mic-e@tapr.org>
Message-ID: <004d01bd4629$196fc240$2ac616cf@rbost.itexas.net>
Rendered body type: text/plain

My Garmin 45 takes a minute to minute and a half to acquire lock using a
KPC-3 or a MicE!

Roy W Bost
e-mail: rbost@itexas.net
This message transmitted on 100% recycled electrons

---

5. garmin 20

From: GStory@icomply.com
Date: Mon, 2 Mar 1998 16:18:27 -0600
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B8D6@lew_prods1.icomply.com>
Rendered body type: text/plain

The mice kit I just assembled is using the garmin 20, do I need to tell it
to talk to the mic-e or is the default correct? It has been running for
close to a day now I dont have a fix yet. Don't have much of an antenna
either, just a copper wire loop, that could be why.

73 kc5goi
gstory@icomply.com

---

6. MicE + laptop

From: rbost@itexas.net (Roy Bost)
Date: Mon, 2 Mar 1998 16:26:02 -0600
To: "Mic-E SIG" <mic-e@tapr.org>
Message-ID: <005f01bd462a$2ff07360$2ac616cf@rbost.itexas.net>
Rendered body type: text/plain

Ok! I have the Garmin plugged into the stereo plug on the MicE and
everything works great! If I plug a laptop into the DB-9 (pins 2,3, and 5)
on the MicE will I be to see my position and other station positions using
WinAPRS? The MicE seems to be a dual serial port TNC!

Roy W Bost
e-mail: rbost@itexas.net
This message transmitted on 100% recycled electrons

---

7. Re: [MIC-E:1544] garmin 20

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Mon, 02 Mar 1998 14:40:13 -0800
To: mic-e@tapr.org
Cc: komori@jeffk.com
Message-ID: <3.0.5.32.19980302144013.0086fc80@jeffk.com>
Rendered body type: text/plain

The copperwire loop is an extremely bad idea as most GPS units put 5 volts
onto the antenna to power up the preamp for active antennas. You may be
shorting it out.

73,
Jeffrey Komori, KH6JUZ
Member Technical Committee
Baker to Vegas Challenge Cup Relay
Fremont / Union City / Alameda County / Temple Station

At 04:24 PM 3/2/98 -0600, you wrote:
>The mice kit I just assembled is using the garmin 20, do I need to tell it
>to talk to the mic-e or is the default correct? It has been running for
>close to a day now I dont have a fix yet. Don't have much of an antenna
>either, just a copper wire loop, that could be why.
>73 kc5goi
>gstory@icomply.com

_____

264 North Whisman Road #16,   Mountain View,   CA   94043-3930

MCSE   KH6JUZ   PP-ASEL

mailto:jeffk@jeffk.com   http://www.jeffk.com/jeffk.html

```
_____________________________________________________________________

                    KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/  B-to-V Challenge Cup Relay, APRS Support
http://www.borlase.com/         Charles Borlase Enterprise
http://www.esperanto.org/               Esperanto - The International Language
http://www.hawastsoc.org/               Hawaiian Astronomical Society
http://www.hpcug.org/           Hawaii PC Users Group
http://www.jeffk.com/           Jeff Komori's Info-Superhighway Reststop
http://www.pclg.org/            Presbyterian Church of Los Gatos
http://www.pdarrl.org/          Pacific Division of the ARRL
http://www.recdotaviation.org/  Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/           Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/         Rob Scott - The Unix Guy
http://www.smxgig.org/          The Annual AVSIG Santa Maria(SMX) Fly-in
_____________________________________________________________________
```

8. Re: [MIC-E:1545] MicE + laptop

From: n2ygk@weca.org
Date: Mon, 2 Mar 98 17:48:19 EST
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.888878899.alan@watsol>
Rendered body type: text/plain

```
> Ok! I have the Garmin plugged into the stereo plug on the MicE and
> everything works great!  If I plug a laptop into the DB-9 (pins 2,3, and 5)
> on the MicE will I be to see my position and other station positions using
> WinAPRS?  The MicE seems to be a dual serial port TNC!
>
> Roy W Bost
> e-mail: rbost@itexas.net
> This message transmitted on 100% recycled electrons
>
>
>

The Mic-E is a transmit-only TNC.  It has no packet receive capability.
In fact, is is not really a TNC at all.
73 de Alan N2YGK
```

9. Re: [MIC-E:1544] garmin 20

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 03 Mar 1998 00:20:41 +0000
To: mic-e@tapr.org
Message-ID: <34FB4CD8.3F3A97C9@amsat.org>
Rendered body type: text/plain

```
Make sure you have the baud initialization lines set properly (N/C is fine) as
the Mic-E expects 4800 bps. The GPS 20 work well with an amplified antenna but
I feel thay are marginal with an unamplified patch or even worse a 1/4 wave antenna.

Ron

GStory@icomply.com wrote:
>
> The mice kit I just assembled is using the garmin 20, do I need to tell it
> to talk to the mic-e or is the default correct?  It has been running for
> close to a day now I dont have a fix yet.  Don't have much of an antenna
> either, just a copper wire loop, that could be why.
>
> 73 kc5goi
> gstory@icomply.com

--
Ron W5RKN

also:
rparsons@bga.com
```

10. Re: [MIC-E:1545] MicE + laptop

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 03 Mar 1998 00:23:52 +0000
To: mic-e@tapr.org
Message-ID: <34FB4D96.34F1F7E8@amsat.org>
Rendered body type: text/plain

If you connect to the DE-9 via a null-modem, you'll be able to see your GPS
sentences but not other stations. It is not a full TNC.

Ron

Roy Bost wrote:
>
> Ok! I have the Garmin plugged into the stereo plug on the MicE and
> everything works great! If I plug a laptop into the DB-9 (pins 2,3, and 5)
> on the MicE will I be to see my position and other station positions using
> WinAPRS? The MicE seems to be a dual serial port TNC!
>
> Roy W Bost
> e-mail: rbost@itexas.net
> This message transmitted on 100% recycled electrons

--
Ron W5RKN

also:
rparsons@bga.com

11. Need help

From: Warren BOUDRIE <web@frontiernet.net>
Date: Mon, 02 Mar 1998 19:14:30 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980302191430.007b7d30@pop3.frontiernet.net>
Rendered body type: text/plain

Just finished my Mic-e. Checked, double checked and checked again the
personality header for my Yaesu FT2400H and it looks right. Jumper for PTT
line was moved to position.

When I turn on the unit (switch in manual), the PTT/RCV light is green for
about a half second and then turns yellow (it goes to red if I switch to
auto). The Pwr/Fix light is yellow. Now, the unit goes into transmit
continuously. I don't see anything on my APRS computer screen. The radio
will continue to transmit even after I shut the Mic-e off.

I'm not much of an electronic whiz and would appreciate any clues offered
that would lead me to a solution for the constant transmission and not
being able to set the RCV light to be green when audio is being transmitted.

73 de Warren AA2LQ

12. Re: [MIC-E:1550] Need help

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 2 Mar 1998 20:35:46 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980302203429.28410G-100000@arctic>
Rendered body type: text/plain

Did you program it in MIC or MIM mode? What is it transmitting? What
does it SOUND like...?

On Mon, 2 Mar 1998, Warren BOUDRIE wrote:

> Just finished my Mic-e. Checked, double checked and checked again the
> personality header for my Yaesu FT2400H and it looks right. Jumper for PTT
> line was moved to position.
>
> When I turn on the unit (switch in manual), the PTT/RCV light is green for
> about a half second and then turns yellow (it goes to red if I switch to
> auto). The Pwr/Fix light is yellow. Now, the unit goes into transmit
> continuously. I don't see anything on my APRS computer screen. The radio
> will continue to transmit even after I shut the Mic-e off.
>
> I'm not much of an electronic whiz and would appreciate any clues offered
> that would lead me to a solution for the constant transmission and not
> being able to set the RCV light to be green when audio is being transmitted.
>
> 73 de Warren AA2LQ
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org

US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

13. Yaesu FT-8000

From: "Gary R. Skuse, Ph.D." <gskuse@axsnet.com>
Date: Tue, 03 Mar 1998 08:37:23 -0500
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19980303083723.006c6710@host.axsnet.com>
Rendered body type: text/plain

I am about to connect a Yaesu FT-8000 to my new Mic-e and am confused by
the two different pin out descriptions provided with the FT8000. The block
diagrams provided with my radio, an early (June 1996) version, are
inconsistent. Has anyone successfully married these two devices or can
anyone provide any pointers?

Thanks in advance,

73, Gary

Gary R. Skuse, Ph.D.   gary_skuse@urmc.rochester.edu
Department of Medicine   gskuse@axsnet.com
University of Rochester   ka1njl@wb2psi.wny.ny.usa.na
Rochester, New York   ka1njl@amsat.org
(716)275-3463 (voice)
(716)273-1034 (fax)

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prior written permission.

14. mic-e help

From: PJM paul <PJMpaul@aol.com>
Date: Tue, 3 Mar 1998 10:34:13 EST
To: mic-e@tapr.org
Message-ID: <6abf55ba.34fc22f7@aol.com>
Rendered body type: text/plain

New Mic-e User here   posting to group hope you can help
I have the Gps 20 Sucessfully mounted in the Mic-e case had to get the antena
connector from the garmin guys.

???   I cannot seem to make the recieve side of the Mic-e work on any of the
radios i have connected it to..   The RCV led never glows green

I have plugged in the recieve audio in all the different locations with no
luck
the audio shows up on pin 13 of the jp11 personality header fine and measured
there with an ac voltmeter I get a range of .08 to 1.4 v depending on the
volume of the radio. I have also changed the jumper jp7 with all the
combonations of recieve audio on pin 13 and in the back of P2   I have also
adusted vr3 with no luck

everything else in the programing and operation of the Mic-e works fine

the Mic-e   KEERCHunks on a busy channell and I know it is not supposed to

??? can anyone explain if the speed of the vehicle is available in the mic-e
format or can this be done somehow with the telemetry connector between Jp7 &
JP2

thanks for any help   73's   KB2VGG   Paul

15. Re: [MIC-E:1553] mic-e help

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 03 Mar 1998 22:34:24 +0000
To: mic-e@tapr.org
Message-ID: <34FC856F.AE328DE3@amsat.org>
Rendered body type: text/plain

Have you traced the audio past JP7? Are you sure that the RXLED is good? Could
there be a bad solder connection?

Speed is available if you specify the RMC GPS string.

Ron

PJM paul wrote:
>
> New Mic-e User here   posting to group hope you can help
> I have the Gps 20 Sucessfully mounted in the Mic-e case had to get the antena
> connector from the garmin guys.
>
> ???   I cannot seem to make the recieve side of the Mic-e work on any of the
> radios i have connected it to..   The RCV led never glows green
>
> I have plugged in the recieve audio in all the different locations with no
> luck
> the audio shows up on pin 13 of the jp11 personality header fine and measured
> there with an ac voltmeter I get a range of .08 to 1.4 v depending on the
> volume of the radio. I have also changed the jumper jp7 with all the
> combonations of recieve audio on pin 13 and in the back of P2   I have also
> adusted vr3 with no luck
>
> everything else in the programing and operation of the Mic-e works fine
>
> the Mic-e   KEERCHunks on a busy channell and I know it is not supposed to
>
> ??? can anyone explain if the speed of the vehicle is available in the mic-e
> format or can this be done somehow with the telemetry connector between Jp7 &
> JP2
>
> thanks for any help   73's   KB2VGG   Paul

--
Ron W5RKN

also:
rparsons@bga.com

16. HTX-212

From: kc5jgv@juno.com (J. S Ratchford)
Date: Wed, 4 Mar 1998 10:39:56 -0600
To: mic-e@tapr.org
Message-ID: <19980304.103959.14478.2.kc5jgv@juno.com>
Rendered body type: text/plain

Well, got my mic-e in a want to use the HTX-212 radio with it. Last night
after setting up the personality board and hooking all up I find that the
mic-e causes the HTX-212 to transmit at all times until I turn on the
mic-e. With power off and disconnected from the mic-e the radio is stuck
in transmit. I haven't changed any jumpers and they are all on the
default settings. Am I missing something here?

Anyone else using the HTX-212 with the mic-e? Please send me your jumper
setting ect. so I can cross-check!

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____
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Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

17. Re: [MIC-E:1555] HTX-212

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 04 Mar 1998 18:36:02 +0000
To: mic-e@tapr.org
Message-ID: <34FD9F10.712B2FE2@amsat.org>
Rendered body type: text/plain

I believe the fix for that is to insert a diode between the R26/U6-13 junction
and the Q4/D3 junction. The cathode of the new diode should be on the Q4/D3 end.

Ron

J. S Ratchford wrote:
>
> Well, got my mic-e in a want to use the HTX-212 radio with it. Last night
> after setting up the personality board and hooking all up I find that the
> mic-e causes the HTX-212 to transmit at all times until I turn on the
> mic-e. With power off and disconnected from the mic-e the radio is stuck
> in transmit. I haven't changed any jumpers and they are all on the
> default settings. Am I missing something here?
>
> Anyone else using the HTX-212 with the mic-e? Please send me your jumper
> setting ect. so I can cross-check!
>
> 73
>
> J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
> F.&A.M. Calf Creek Lodge #426
> email: kc5jgv@juno.com
>
> _____
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at http://www.juno.com
> Or call Juno at (800) 654-JUNO [654-5866]

--
Ron W5RKN

also:
rparsons@bga.com

18. Re: [MIC-E:1555] HTX-212

From: rbost@itexas.net (Roy Bost)
Date: Wed, 4 Mar 1998 16:24:30 -0600
To: <mic-e@tapr.org>
Message-ID: <000701bd47bc$4dc323e0$4ec616cf@rbost.itexas.net>
Rendered body type: text/plain

My MicE does the same thing with an Alinco 1200 Data Radio! There was a fix
published on the sig sometime back. I just got in the habit of turning off
the radio before turning off the MicE!

Roy W Bost
e-mail: rbost@itexas.net
This message transmitted on 100% recycled electrons

19. Re: [MIC-E:1555] HTX-212

From: PJM paul <PJMpaul@aol.com>
Date: Thu, 5 Mar 1998 11:53:19 EST
To: mic-e@tapr.org
Message-ID: <acfb85a1.34fed881@aol.com>
Rendered body type: text/plain

I had this problem melding it onto a uc16 Icom
I found that the Ground and the Ptt were reversed

Good Luck Paul KB2VGG

20. Re: [MIC-E:1555] HTX-212

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 5 Mar 1998 14:38:06 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980305143611.4710G-100000@arctic>
Rendered body type: text/plain

On Wed, 4 Mar 1998, J. S Ratchford wrote:

> mic-e causes the HTX-212 to transmit at all times until I turn on the
> mic-e. With power off and disconnected from the mic-e the radio is stuck
> in transmit.

The initial Produciton Mic-E's will key some radios when off unless you
install an isolation diode as follows:

... Since R-26 is not even shown on the Schematic (it
was a last minute production change), any one who does this should trce
the circuit and decide his best way to add the diode...

> >The R26 is to pull up the input on pin 13 to U6F. The diode needs to
> >isolate this input and R26 combination from the rest of the

> >circuit which is Q4 collector and D3. Connect the cathode of the diode to
> >Q4 and the anode to the R26 and pin 13 combo.
> >
> >Reply mail addr: wb4apr@amsat.org
> >US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> >See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> >See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> >See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

21. Mic-E and R26

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 06 Mar 1998 03:49:34 +0000
To: mic-e@tapr.org
Message-ID: <34FF7239.86421FBE@amsat.org>
Rendered body type: text/plain

Bob Bruninga wrote:
...
>
> .. Since R-26 is not even shown on the Schematic (it
> was a last minute production change), any one who does this should trce
> the circuit and decide his best way to add the diode...

R26 IS on the Rev. 2.1 schematics.

--
Ron W5RKN

also:
rparsons@bga.com

22. Mic-E's via MIR

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sat, 7 Mar 1998 13:44:06 -0500 (EST)
To: aprssig@tapr.org
Cc: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980307133415.15240F-100000@arctic>
Rendered body type: text/plain

Dont overlook that a simple Kerchunk of your Mic-E Microphone on 145.985
on Tuesday Morning at just the right time will put you on the map
nationwide.

The APRS Mic-E is perfect for this experiment for many reasons:
1) It has a very short packet length
2) It includes CSE and SPEED and a message
3) It can be set to AUTO if you cant be in your car at the exact time.

CAUTION!!!! However, you must change your VIA path to go via R0MIR
OR I must get MIR to add the alias of WIDE before Tuesday.
I Will work on that...ASAP.

Also do not send you Mic-E BText, since older versions of APRS will only
capture the BText and not the POSIT at the same time... ALso, it
wastes bandwidth for this short concentrated experiment.

In the future I will NOT dual post to aprssig for Mic-E specific info
assuming that all Mic-E owners and Mic-E sigs are also on the aprsSIG. If
you are ONLY on Mic-E and not APRSSIG, lemme know...
so I can send you an individual copy..

23. GPS Data Missing

From: "Barry A. Wilson" <ka0bbq@worldnet.att.net>
Date: Mon, 9 Mar 1998 18:48:16 -0500
To: <mic-e@tapr.org>
Message-ID: <001901bd4bb5$d63e1ac0$9ebf440c@barry>
Rendered body type: text/plain

I have recently built and programmed the Mic-E Kit. I am attempting to use a GARMIN III GPS with my
unit. I am getting the following display on my home packet station: KA0BBQ-9>0PPPPP-4/V:'vXl
m/'6CD6300006

I have the GPS set for NMEA output at 4800 bps which works with Rand McNally Street Finder Deluxe and my
 laptop. I am attempting to use the DB9 connection J2 and have the blank stereo plug inserted in P1.
All functions the Mic-E appear to work as described except no positional data is being transmitted
through the radio. What else should I check to confirm proper jumper settings for external GPS data
input. The only other thing I can attempt is creating a jumper from the GPS's DB9 connector to the
stereo plug P1.

Thanks for any assistance...

73

Barry Wilson (KA0BBQ)
barry@americamail.com

24. Re: HTX-212

From: kc5jgv@juno.com (J. S Ratchford)
Date: Tue, 10 Mar 1998 08:09:17 -0600
To: mic-e@tapr.org
Cc: mic-e@tapr.org
Message-ID: <19980310.080922.18854.0.kc5jgv@juno.com>
Rendered body type: text/plain

Well I tried the diode, I think I got it on the right spots, but no dice.
Can someone help out here. When the MIC-E is off it keys the HTX-212.
Therefore I run the risk of BRAAAPPPing a non-MIC-e compatable repeater.
Talk about put APRS on the negitive side of things! Anyone else out there
using a HTX-212 with the MIC-E?

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

On Thu, 5 Mar 1998 14:21:27 -0600 (CST) Bob Bruninga
<bruninga@nadn.navy.mil> writes:
>On Wed, 4 Mar 1998, J. S Ratchford wrote:
>
>> mic-e causes the HTX-212 to transmit at all times until I turn on
>the
>> mic-e. With power off and disconnected from the mic-e the radio is
>stuck
>> in transmit.
>
>The initial Produciton Mic-E's will key some radios when off unless
>you
>install an isolation diode as follows:
>
>.. Since R-26 is not even shown on the Schematic (it
>was a last minute production change), any one who does this should
>trce
>the circuit and decide his best way to add the diode...
>
>> >The R26 is to pull up the input on pin 13 to U6F. The diode needs
>to
>> >isolate this input and R26 combination from the rest of the
>> >circuit which is Q4 collector and D3. Connect the cathode of the
>diode to
>> >Q4 and the anode to the R26 and pin 13 combo.
>> >
>> >Reply mail addr: wb4apr@amsat.org
>> >US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
>> >See DAYTON97 HISTORY:
>http://web.usna.navy.mil/~bruninga/dayton.html
>> >See Maryland APRS LIVE:
>http://web.usna.navy.mil/~bruninga/aprs.html
>> >See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
>
>

_____
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Or call Juno at (800) 654-JUNO [654-5866]

25. Voice repeaters

From: kc5jgv@juno.com (J. S Ratchford)
Date: Tue, 10 Mar 1998 12:56:59 -0600
To: mic-e@tapr.org
Message-ID: <19980310.125931.8982.3.kc5jgv@juno.com>
Rendered body type: text/plain

What is the best and cheapest route to take in making a voice repeater
MIC-E compatible. Who has done it? What equipment did you use? I am

trying to get our club to agree on making our most used repeater(s) MIC-E
compatible.

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____
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Or call Juno at (800) 654-JUNO [654-5866]

26. Re: [MIC-E:1564] Voice repeaters

From: Wes Johnston <kd4rdb@usa.net>
Date: Wed, 11 Mar 1998 00:09:36 -0500
To: mic-e@tapr.org
Message-ID: <3.0.32.19980311000928.01058e3c@mail.eagnet.com>
Rendered body type: text/plain

J. S Ratchford wrote:
>What is the best and cheapest route to take in making a voice repeater
>MIC-E compatible. Who has done it? What equipment did you use? I am
>trying to get our club to agree on making our most used repeater(s) MIC-E
>compatible.

We use a KPC4 that I bought for $125 used. The repeater controller is a
cat1000.... it mutes the packets on the repeater audio. Ran the CD led on
the KPC thru a transistor buffer (read diode and capacitor on the base of
the transistor, emitter grounded, and open collector. (used an unused pin
on port 2's 9 pin plug). This setup pulls the collector low when a carrier
is present. I put a relay in line with the COR of the repeater. The
relay's NC contacts are in series with the COR line that goes to the
cat1000. When carrier is present, the relay is energized and opens the COR
line. This fools the controller into thinking that the carrier dropped,
and the repeater mutes the packet for me.

I tapped audio from the repeater reciever to port 2 of the KPC4. the PTT
and TX audio from KPC4 goto the aprs radio on 145.79. Port 1 listens to
the 145.79 radio, and it's PTT and TXaudio lines are Y'ed in with the
TXAudio and PTT from port 2. ONERADIO is ON so that if port 1 hears a
carrier, port 2 will not TX... it will wait. MYA is set to WIDE/WIDE, MYD
is RELAY/RELAY. CD is SOFT/SOFT for true DCD - both the repeater audio and
the 145.79 radio's run open squelsch.

May sound complicated... but the TNC shows no sign of modification... heck
there's just one wire from the LED on front panel run to a pin on a 9 pin
plug. The rest of the circuit is mounted on a little db25 "breakout box"
from radio shack... little silver thing looks like a gender changer, and
uses the same plugs as the cat1000 - and hangs off the back of the cat1000.

Wes
Email: mailto:kd4rdb@usa.net
EU ax25: mailto:kd4rdb@on1kul-10.ampr.org
WEB: http://www.qsl.net/kd4rdb
         http://www.qsl.net/kd4rdb/aprs.htm
ICQ: 273949
Lat/Long: 3209.36N/08109.88W

Covert member of the Secret Right Wing Conspiracy.

27. symbol

From: kc5jgv@juno.com (J. S Ratchford)
Date: Wed, 11 Mar 1998 07:00:43 -0600
To: mic-e@tapr.org
Message-ID: <19980311.070117.9382.0.kc5jgv@juno.com>
Rendered body type: text/plain

What is the character that I use to program a CAR symbol in the MIC? I
thought it was ">" but all I get is a dot!

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

28. Re: [MIC-E:1566] symbol

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Mar 1998 08:18:24 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980311081737.16653A-100000@arctic>
Rendered body type: text/plain

THe production MIC needs a two character symbol. Use /> for th eprimary
table car or \< for the secondsary. Or 5> for car #5

On Wed, 11 Mar 1998, J. S Ratchford wrote:

> What is the character that I use to program a CAR symbol in the MIC? I
> thought it was ">" but all I get is a dot!
>
> 73
>
> J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
> F.&A.M. Calf Creek Lodge #426
> email: kc5jgv@juno.com
>
> ____
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at http://www.juno.com
> Or call Juno at (800) 654-JUNO [654-5866]
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

29. mic-e to motorola m-120

From: Peter Bennett <pbennett@guate.net>
Date: Wed, 11 Mar 1998 11:40:47 -0600
To: mic-e@tapr.org
Message-ID: <3506CC9F.4D179EE8@guate.net>
Rendered body type: text/plain

Hello all,

I want to interface a mic-e with a motorola M120, does someone has the
jumper settings and layout needed?

Regards
Peter Bennett

30. Re: [APRSSIG:22026] West coast list

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Wed, 11 Mar 1998 10:55:26 -0800
To: bruninga@nadn.navy.mil
Cc: b2vtechs@baker-to-vegas.org, mic-e@baker-to-vegas.org, aprssig@tapr.org,
        mic-e@tapr.org
Message-ID: <3.0.5.32.19980311105526.008a55e0@jeffk.com>
Rendered body type: text/plain

Hi Bob,

My KH6JUZ-1 Mic-E set-up for the great MIR experiment was:

Kenwood TM-942A @ 5 watts into an NR2000NA triband 2m/70cm/23cm mobile whip.

73,
Jeffrey Komori, KH6JUZ
Member of Technical Committee
Baker to Vegas Challenge Cup Relay
Fremont / Union City / Alameda County / Temple Station

At 08:01 AM 3/11/98 -0600, you wrote:
>West coast detections TImes are UTC. Notice the Mic-E near the bottom!

```
>
>10:42:44  KH2Z>R0MIR*>APRSA   :=3401.41N/11709.45W2APRS+SA
>10:42:52  K7GPS-9>R0MIR*>APRS :$GPRMC,104446,A,4738.574,N,11728.405,W,
>10:44:05  N7RXY>R0MIR*>APRS   :=4623.64N/11700.90W-Paul, Lewiston ID
>10:44:10  N5TAM>R0MIR*>WIDE>A :=3225.55N/09748.98W-PHG4080/Granbury,Tx
>10:44:59  N9XTN>R0MIR*>BEACON :!41.0972N/095.5572W-Mark50W25ft2.5dbdomni
>10:45:32  WB7WHF>R0MIR*>APRSW :=4612.00N/11947.00W- Steve in Prosser
>10:46:41  WA7EWV-10>R0MIR*>BE :!4622.21N/11657.21WyPHG2010/Lewiston
>10:46:53  WA8INZ-2>R0MIR*>APR :=3458.55N/08629.96W` Bill,Hazel Green,AL
>10:47:06  N7NAT>R0MIR*>APRSW  :=4636.25N/12035.55WyPHG5390/ -WAYAYAKIMA
>10:47:18  KD4DLT>R0MIR*>EM73VQ:=3341.75N/08410.75W/EM73vq MIKE Atl Ga.*
>10:48:28  WB3AFL>R0MIR*>APRSW :=3951.38N/07627.15W-PHG3530/ kip@westol.com
>12:15:55  K7OFT>R0MIR*>APRSW  :=4740.36N/12217.48W&PHG5263/K7OFT Seattle
>12:17:53  KI7AB>R0MIR*>APR811 :=4549.02N/12230.03W-PHG516.5Mike, CN85st
>12:18:16  KH6JUZ-1>R0MIR*>3WRSWX :'2[]l"^_>/
>12:20:06  KI6MP>R0MIR*>APRS   :=3251.50N/11712.50W&ki6mp@adnc.com
>12:21:56  KB0UZQ>R0MIR*>APR813:=3923.08N/09439.20W-byoung@qni.com
>
>
>
>
>
```

---

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.borlase.com/	Charles Borlase Enterprise
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeff Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria(SMX) Fly-in

---

31. Re: [MIC-E:1564] Voice repeaters

From: PJM paul <PJMpaul@aol.com>
Date: Wed, 11 Mar 1998 14:59:24 EST
To: mic-e@tapr.org
Message-ID: <f4a88b91.3506ed1e@aol.com>
Rendered body type: text/plain

Response to Scott KC5JGV

Hi I may not have the perfect info here I ran the mic-e through a commercial repeater just to test it.. had to increase the delay to about 950 ms but it works fine
no problems noted... If there is a mod that need be made I would also like to know..

73's
Paul KB2VGG

32. Re: [MIC-E:1568] mic-e to motorola m-120

From: PJM paul <PJMpaul@aol.com>
Date: Wed, 11 Mar 1998 15:11:10 EST
To: mic-e@tapr.org
Message-ID: <90fcf197.3506efe0@aol.com>
Rendered body type: text/plain

Hi will check if M-120 is the Same as a Radius - Maxtrac Etc Melded Mic-e with Maxtrac no problem

Will upload pin out tomorrow

Good Luck Paul KB2VGG

33. Re: [APRSSIG:22026] West coast list

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 11 Mar 1998 15:57:54 -0500 (EST)
To: Jeffrey Komori - KH6JUZ <jeffk@jeffk.com>
Cc: b2vtechs@baker-to-vegas.org, mic-e@baker-to-vegas.org, aprssig@tapr.org, mic-e@tapr.org, doc@volcano.net
Message-ID: <Pine.SOL.3.96.980311155155.18902J-100000@arctic>
Rendered body type: text/plain

> My KH6JUZ-1 Mic-E set-up for the great MIR experiment was:
> Kenwood TM-942A @ 5 watts into an NR2000NA triband 2m/70cm/23cm mobile whip.

> >12:18:16 KH6JUZ-1>R0MIR*>3WRSWX :'2[]l"^_>/

APRSdos REPLY/COMMENT: Great! I am so glad you did this, I just couldnt get out to he car with all the stuff going on. My proposal for ISS was to have a Mic-E on board so whenever the astronauts talked on FM, we could still monitor their position. But more importantly, the Mic-E would auto-identify the astronatus voices which could be picked up by unattended packet stations and drive computers to do who knows what all...., like a continuous readout of the 13 channels of telemetry in the Mic-E, or driving WEB pages when ever they talked... etc...

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

34. Re: [MIC-E:1571] Re: mic-e to motorola m-120

From: "Richard Garcia" <k4gps@bellsouth.net>
Date: Wed, 11 Mar 1998 20:54:41 +0000
To: mic-e@tapr.org
Message-ID: <199803120155.UAA14502@mail.mia.bellsouth.net>
Rendered body type: text/plain

Yes they are but remember that a few of the Motorolas can have the pin assignments changed by software. I forget if these two allow software changes of the pins.

> Date: Wed, 11 Mar 1998 14:13:40 -0600 (CST)
> Reply-to: mic-e@tapr.org
> From: PJM paul <PJMpaul@aol.com>
> To: mic-e@tapr.org
> Subject: [MIC-E:1571] Re: mic-e to motorola m-120

> Hi   will check if M-120   is the Same as a Radius - Maxtrac Etc Melded
> Mic-e with Maxtrac no problem
>
> Will upload pin out tomorrow
>
> Good Luck Paul KB2VGG
>
>
>
k4gps@bellsouth.net Ex: N2CZF KA2FXA
Jupiter Farms FL.
http://aprs.florida.net
http://www.radiotronics.com

35. MIC-E to Yaesu HT

From: Russ Brown <brownrj@kaiwan.com>
Date: Wed, 11 Mar 1998 21:30:37 +0000
To: mic-e@tapr.org
Message-ID: <3507027C.C3012FDF@kaiwan.com>
Rendered body type: text/plain

I am hooking my MIC-E up to a Yaesu FT-209RH 2m handheld. Does anyone have any experience with the personality jumper settings for this one?
Thanks,
Russ Brown
KB6LUD

36. Mic-E TNC Output

From: Peter Bennett <pbennett@guate.net>
Date: Thu, 12 Mar 1998 16:28:42 -0600

To: mic-e@tapr.org
Cc: aprssig@tapr.org
Message-ID: <3508619A.48F1231E@guate.net>
Rendered body type: text/plain

Hi everyone,

I'm still trying to parse the mic-e encoder message format, i know it is
all in the manual but still, i'm a little confused... so i would like
your help if someone knows how to...

Suppose i have this from my TNC:

XXXX-X>RU4W5S,RELAY,WIDE,WIDE:'l.n!e>/
XXXX-X is my callsign, right.
Now, I suppose the lat,lon,course,speed fields comes compressed in
'l.n!e>/

Chr   Hex   Bin

'   27   00100111
l   6C   01101100
.   2E   00101110
n   6E   01101110
!   21   00100001
e   65   01100101
>   3E   00111110
/   2F   00101111

How do i extract the lat,lon,course and speed fields from this?

Right now, i'm not getting the output from a tnc, just looking at the
terminal window in WinAPRS...but, i will have a TNC sooner so i'd like
to parse the output.

Regards
Peter Bennett

37. [MIC-E:1574] MIC-E to Yaesu HT

From: HERBERT PERRINE <WD8DLQ@compuserve.com>
Date: Fri, 13 Mar 1998 11:17:33 -0500
To: "INTERNET:mic-e@tapr.org" <mic-e@tapr.org>
Message-ID: <199803131118_MC2-36A2-3901@compuserve.com>
Rendered body type: text/plain

H. Perrine, WD8DLQ: I am using the Yaseu FT-212RH which may be similiar.
The Yaesu 8-pin listing in the TAPR Mic-E manual all worked except I had to
put the microphone ground (MIc-E #11) to Yaesu pin #5 instead of the # 6
listed in the manual. Hope that this helps. 73'   WD8DLQ

38. TAPR APRS Freq Database

From: "APRS Freq List Manager" <aprs-freq@tapr.org>
Date: Sat, 14 Mar 1998 10:02:41 +0000
To: aprssig@tapr.org
Cc: aprs-fl@tapr.org, mic-E@tapr.org, regional_freq@tapr.org
Message-ID: <199803141503.KAA21010@mail.mia.bellsouth.net>
Rendered body type: text/plain

In conjunction with all the current QSY efforts and future frequency
changes TAPR is compiling a list of VHF APRS frequencies for North
America

We are requesting the assistance of all APRS digi owners or sysops to
submit the following information for compiling into the NADSD web
page. This information will be used to monitor the progress of the
frequency change and to assist in any further research on the
subject in the near future. The following information is requested to
be sent to in this format

aprs-freq@tapr.org
subject line please insert
aprs-freq (STATE)

Body of message:

Digi callsign with SSID
Current frequency
State
Municipality

Lat/Long in d/m
Contact Name
Contact Callsign
e-mail address
Yes or No for QSY to 144.39
QSY date intended

Reply to: aprs-freq@tapr.org
APRS Digi Database Info

39. Re: Mic-E TNC Output

From: Peter Bennett <pbennett@ns.guate.net>
Date: Mon, 16 Mar 1998 14:36:08 -0600
To: mic-e@tapr.org
Message-ID: <350D8D38.49656E2D@guate.net>
Rendered body type: text/plain

Hi Bob,

I was reading again the Mic-E manual to finish my research project and I
can't answer myself this:
if the latitude values goes from 90 to -90 and the longitude values goes
from 180 to -180, how does the mic-e protocol handles the negative
values?

Regards
Peter Bennett

40. Re: [MIC-E:1578] Re: Mic-E TNC Output

From: Brian Lojeck <lojeck@almaak.usc.edu>
Date: Mon, 16 Mar 1998 13:15:16 -0800 (PST)
To: mic-e@tapr.org
Message-ID: <Pine.SV4.3.94.980316131511.9112B-100000@mizar.usc.edu>
Rendered body type: text/plain

On Mon, 16 Mar 1998, Peter Bennett wrote:

> Hi Bob,
>
> I was reading again the Mic-E manual to finish my research project and I
> can't answer myself this:
> if the latitude values goes from 90 to -90 and the longitude values goes
> from 180 to -180, how does the mic-e protocol handles the negative
> values?
>
> Regards
> Peter Bennett
>
>

Brian Lojeck, lojeck@mizar.usc.edu
Entertainment Technology Center
POSITIVE THINKING: Self-improvement through self-deception

41. Re: [MIC-E:1578] Re: Mic-E TNC Output

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 16 Mar 1998 16:43:48 -0600
To: mic-e@tapr.org, pbennett@ns.guate.net
Message-ID: <350DAB24.26867FD6@amsat.org>
Rendered body type: text/plain

Look at the manual, p. 23. Note the N and W bits near the top of the page.

Ron

Peter Bennett wrote:

> Hi Bob,
>
> I was reading again the Mic-E manual to finish my research project and I
> can't answer myself this:
> if the latitude values goes from 90 to -90 and the longitude values goes
> from 180 to -180, how does the mic-e protocol handles the negative
> values?
>
> Regards
> Peter Bennett

--
Ron Parsons
W5RKN

42. UNSUBSCRIBE

From: Ernest Thomas <N3PXF@postoffice.worldnet.att.net>
Date: Tue, 17 Mar 1998 00:15:00 +0000
To: mic-e@tapr.org
Message-ID: <19980317001457.AAA4456@LOCALNAME>
Rendered body type: text/plain

[Empty message body]

43. UNSUBSCRIBE

From: Ernest Thomas <N3PXF@postoffice.worldnet.att.net>
Date: Tue, 17 Mar 1998 00:15:08 +0000
To: mic-e@tapr.org
Message-ID: <19980317001457.AAB4456@LOCALNAME>
Rendered body type: text/plain

[Empty message body]

44. UNSUBSCRIBE

From: Ernest Thomas <N3PXF@postoffice.worldnet.att.net>
Date: Tue, 17 Mar 1998 00:15:11 +0000
To: mic-e@tapr.org
Message-ID: <19980317001457.AAC4456@LOCALNAME>
Rendered body type: text/plain

[Empty message body]

45. Re: [MIC-E:1582] UNSUBSCRIBE

From: WolfsCreek <WolfsCreek@aol.com>
Date: Mon, 16 Mar 1998 22:23:57 EST
To: mic-e@tapr.org
Message-ID: <69a2eb71.350deccf@aol.com>
Rendered body type: text/plain

In a message dated 98-03-16 19:28:26 EST, you write:

<< mic-e@tapr.org >> UNSUBSCRIBE
WOLFSCREEK@AOL.COM

46. Re: [MIC-E:1578] Re: Mic-E TNC Output

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Tue, 17 Mar 98 12:42:59 EST
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.890156579.alan@watsol>
Rendered body type: text/plain

> Hi Bob,
>
> I was reading again the Mic-E manual to finish my research project and I
> can't answer myself this:
> if the latitude values goes from 90 to -90 and the longitude values goes
> from 180 to -180, how does the mic-e protocol handles the negative
> values?
>
> Regards
> Peter Bennett
>

There is an E/W and N/S flag hidden somewhere with the other flag bits.
/a

47. new e-mail

From: Jack Smith <ke4lwt@qsl.net>
Date: Tue, 17 Mar 1998 12:05:47 -0600
To: Bob Goree <Bob.Goree@noaa.gov>, Brent Gourley KE4MZ <bgrly@ala.net>,
        "C. R. Lewis" <crlewis@gte.net>,
        Charles Finney N4RNU <CFinney539@AOL.com>,
        Chris Wren KD4SYK <kd4syk@juno.com>, CPT Evan Cato <ecato@isoa.net>,
        Dee Higginbotham KE4LFG <ke4lfg@amsat.org>,
        Don Wren KD4SYL <kd4syl@juno.com>,
        Doug Snowden N4IJ <DSNOWDEN@ncdc.noaa.gov>,

Egghead <LISTSERV@EGGSITE6.EGGHEAD.COM>,
Fletcher Henderson KA4BPR <ka4bpr@ala.net>,
George Stokes WA4MZL <wa4mzl@amsat.org>,
"Jack B. Crable KA4WVO" <jcrable@ala.net>,
Jack Smith KE4LWT <lsmith@ala.net>, Jeffrey S Austin <n8vna@juno.com>,
Jennifer Carpenter KF4DRS <jennifer@graceba.net>,
Joe Foor KF4DYS <kf4dys@wfeca.net>,
Joe Higginbotham KE4HUN <ke4hun@amsat.org>,
Ken Wolff <kwolff@ma.ultranet.com>,
Lee Martin KD4YBC <rfelectron@AOL.com>,
"mic-e@tapr.org" <mic-e@tapr.org>,
"space.repeater@cus.umist.ac.org" <space.repeater@cus.umist.ac.org>,
Terry Bird W4WUL <wbird@ala.net>, Tom Tucker KA4YES <cttucker@ala.net>,
Wayne Perkins NS4U <wperkins@ala.net>
Message-ID: <350EBB7B.59EF@qsl.net>
Rendered body type: text/plain

Hi all,

Lorrie and I have a new e-mail address, it is 100jsmit@gte.net

Jack

48. Digi Path

From: Warren BOUDRIE <web@frontiernet.net>
Date: Tue, 17 Mar 1998 16:31:28 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980317163128.007b8cc0@pop3.frontiernet.net>
Rendered body type: text/plain

Just finished the Mic-e kit and it appears to work well. (after adding
extra diode).

I'v set my path via RELAY,WIDE - My car symbols shows up properly on the
map, however, in both DOSAPRS and WinAPRS I can not see the digi paths from
my Mic-e. The paths show up for all other stations. My switch is set to 2.

Am I doing something wrong or is that the way the Mic-e works?

73 de Warren AA2LQ

49. Field Change Order for Mic-E

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 18 Mar 1998 10:47:07 -0600
To: MIC-E <mic-e@tapr.org>
Message-ID: <350FFA8B.40A62056@amsat.org>
Rendered body type: text/plain

This is a recommended fix for all Mic-E units. Without this fix, the
Mic-E may cause your transmitter to transmit when the Mic-E is turned
off.

The fix adds a diode between the junction of U6-13 / R26 and the
junction of Q4 / D3. The diode can be a 1N4001, 1N4148, etc. The cathode
(band) goes toward the Q4 / D3 junction.

A schematic of the area and a JPEG of the circuit board (solder side)
are attached.

Cut the trace pointed to by the white arrow on the JPEG. Attach the
diode on the bottom of the board between the ends of the trace you just
cut with the cathode (band) to the lower-right.

--
Ron Parsons
W5RKN
[Attachment: Mic-E.bmp; image/x-ms-bmp; 12,062 bytes]
[Attachment: Mic-EFix.jpg; image/jpeg; 131,752 bytes]

50. Mic-E only P's & 0's...

From: Peter Bennett <pbennett@guate.net>
Date: Thu, 19 Mar 1998 17:35:54 -0600
To: mic-e@tapr.org
Message-ID: <3511ABD9.BE8973BD@guate.net>
Rendered body type: text/plain

Hi all,

Just testing the Mic-E with a built in Garmin GPS20 and GA27 anntena.
The problem is I can not get a valid fix, just P's and 0's like if there

were no GPS attached. I gave it some time (almost 4 hours) and still no
valid fix. Any ideas?

Regards
Peter Bennett

51. Re: [MIC-E:1589] Mic-E only P's & 0's...

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 19 Mar 1998 19:40:47 -0600
To: mic-e@tapr.org
Message-ID: <3511C91F.117A735B@amsat.org>
Rendered body type: text/plain

How was the GPS connected to the Mic-E? How were the jumpers set?

Does the GPS not have a fix? Test by attaching the GPS to a terminal.

Ron

Peter Bennett wrote:

> Hi all,
>
> Just testing the Mic-E with a built in Garmin GPS20 and GA27 anntena.
> The problem is I can not get a valid fix, just P's and 0's like if there
> were no GPS attached. I gave it some time (almost 4 hours) and still no
> valid fix. Any ideas?
>
> Regards
> Peter Bennett

--
Ron Parsons
W5RKN

52. Re: [MIC-E:1589] Mic-E only P's & 0's...

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 19 Mar 1998 21:00:59 -0600
To: mic-e@tapr.org
Message-ID: <v03102801b1378b53d6e3@[206.50.200.18]>
Rendered body type: text/plain

>Hi all,
>
>Just testing the Mic-E with a built in Garmin GPS20 and GA27 anntena.
>The problem is I can not get a valid fix, just P's and 0's like if there
>were no GPS attached. I gave it some time (almost 4 hours) and still no
>valid fix. Any ideas?
>
>Regards
>Peter Bennett

Bob/s SIGPLOT.bas is a must for testing the Garmin-20
It even works well on my MAC, using Virtual PC and Softwindow's 95

Sigplot makes it easy to tell if the GPS is hunting or thinking.
Bob used it to test different gps antennas.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

53. No packet transmission

From: "Richard E. Andersen" <scillex@home.com>
Date: Thu, 19 Mar 1998 22:39:19 -0500
To: mic-e@tapr.org
Message-ID: <3511E4E7.F6FE0347@home.com>
Rendered body type: text/plain

I built my MIC-E and connected it to my Kenwood 6TM-621A and do not get
any packet signals. I am able to talk through it but it does not send
any data. I checked the wireing and programming several times. Any
ideas?

Thanks, N7OKQ

54. Re: [MIC-E:1592] No packet transmission

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 20 Mar 1998 07:10:57 -0600
To: mic-e@tapr.org
Message-ID: <35126AE1.AAF78C26@amsat.org>
Rendered body type: text/plain

Do you mean you never get PTT asserted, or no modulation on the signal?

If the latter, have you adjusted the TX level, and tried different options for J3?

Richard E. Andersen wrote:

> I built my MIC-E and connected it to my Kenwood 6TM-621A and do not get
> any packet signals. I am able to talk through it but it does not send
> any data. I checked the wireing and programming several times. Any
> ideas?
>
> Thanks, N7OKQ

--
Ron Parsons
W5RKN

55. Mic-E: Just P's & 0's ...

From: Peter Bennett <pbennett@guate.net>
Date: Fri, 20 Mar 1998 08:40:35 -0600
To: mic-e@tapr.org
Message-ID: <35127FE3.955C968F@guate.net>
Rendered body type: text/plain

How can i check if the GPS20 is working and where can i download SIGPLOT.bas...

Thank you
Peter Bennett

Bob/s SIGPLOT.bas is a must for testing the Garmin-20
It even works well on my MAC, using Virtual PC and Softwindow's 95

Sigplot makes it easy to tell if the GPS is hunting or thinking.
Bob used it to test different gps antennas.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

56. Re: [MIC-E:1594] Mic-E: Just P's & 0's ...

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 20 Mar 1998 09:12:19 -0600
To: mic-e@tapr.org
Message-ID: <35128753.69C97F60@amsat.org>
Rendered body type: text/plain

Connect the GPS20 to a terminal emulator at 4800-n-8-1 to see if it's working of if you get a fix.

Peter Bennett wrote:

> How can i check if the GPS20 is working and where can i download
> SIGPLOT.bas...
>
> Thank you
> Peter Bennett
>
> ---
> Bob/s SIGPLOT.bas is a must for testing the Garmin-20
> It even works well on my MAC, using Virtual PC and Softwindow's 95
>
> Sigplot makes it easy to tell if the GPS is hunting or thinking.
> Bob used it to test different gps antennas.
>
> 73
>

> Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

--
Ron Parsons
W5RKN

57. Alternator/Ignition Noise on Xmit Audio

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Fri, 20 Mar 1998 11:52:05 -0800
To: mic-e@tapr.org
Cc: mic-e@baker-to-vegas.org, b2vtechs@baker-to-vegas.org
Message-ID: <3.0.5.32.19980320115205.00899d10@jeffk.com>
Rendered body type: text/plain

Hi,

The B2V group (http://www.baker-to-vegas.org/) have been testing the TAPR Mic Encoders with Motorola Oncore VP GPS engines installed for the past couple of months and have had great success. I wanted to thank all those folks who've helped us over the past several months with information about how to set-up and configure these units.

One last issue that we are now dealing with is ignition/alternator noise.

I've installed the Mic-E into my vehicle, connected between mic and Kenwood TM-942A and now get a fairly loud ignition/alternator noise. All power leads go directly to the vehicle battery. When I don't have the Mic-E connected, there is no noise. When the Mic-E is connected, there is ignition/alternator noise whether the Mic-E is turned on or off.

This seems to be happening with all of our set-ups with various vehicle/radio combinations. Has anyone else experienced this problem? If you have, what fixed did you implement to reduce/eliminate the ignition/alternator noise? Any help or advice would be appreciated.

On another note, the B2V group has begun beta testing for Kantronics the KPC-9612plus tri-port TNC with an additional 1200 BPS modem board. We've just finished the first beta test of firmware 8.2 tri-port support and are awaiting the second beta version of firmware. Our plan is to use the first 1200 BPS port of the KPC-9612plus for Mic-E "gating" from the UHF voice repeater to the second 1200 BPS port connected to a radio on the APRS channel and UI digipeating on that second 1200 BPS port for the APRS channel.

Pretty fun stuff! :-)

73,
Jeffrey Komori, KH6JUZ
Member of Core Technical Committee
1998 Baker to Vegas Challenge Cup Relay
Fremont / Union City / Alameda County / Temple Station
_____

264 North Whisman Road #16, Mountain View, CA 94043-3930

MCSE KH6JUZ PP-ASEL

mailto:jeffk@jeffk.com http://www.jeffk.com/jeffk.html
_____

KH6JUZ Enterprise [web hosting for]:

http://www.baker-to-vegas.org/	B-to-V Challenge Cup Relay, APRS Support
http://www.borlase.com/	Charles Borlase Enterprise
http://www.esperanto.org/	Esperanto - The International Language
http://www.hawastsoc.org/	Hawaiian Astronomical Society
http://www.hpcug.org/	Hawaii PC Users Group
http://www.jeffk.com/	Jeff Komori's Info-Superhighway Reststop
http://www.pclg.org/	Presbyterian Church of Los Gatos
http://www.pdarrl.org/	Pacific Division of the ARRL
http://www.recdotaviation.org/	Usenet's rec.aviation Goes to Reno
http://www.svnpa.org/	Silicon Valley Network Prof. Assoc.
http://www.unixguy.com/	Rob Scott - The Unix Guy
http://www.smxgig.org/	The Annual AVSIG Santa Maria(SMX) Fly-in

_____

58. Re: [MIC-E:1596] Alternator/Ignition Noise on Xmit Audio

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 20 Mar 1998 17:47:44 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980320172516.20333E-100000@arctic>
Rendered body type: text/plain

The number one problem with ground loop noise getting into the Mic-E is avoided if the Mic-E's Mic ground is isolated from circuit ground and ONLY connected to the radio's Mic Ground (ALSO not GROUNDED). This should solve the problem as long as the radio has a separate Mic ground (separate from PTT or circuit ground).

If the radio does NOT have a separate Mic Ground pin, then you have a problem... since all the current feeding the internal GPS is in series with any incidental ground impedance. In this case, you have to hook the Mic-E Mic-GND to common ground. Now then this common Mic-E ground must be connected to the radio ground as directly as possible. Meaning through the mic cable usually. For the 12 volts to run the Mic-E, get it as close to the radio as possible, especially the ground. You may even try not grounding the power jack (so there is no chance of a ground loop) and allowing the Mic-E mic cable provide the ground return.

Just some ideas...

59. Help needed with PATH selection

From: "Barry A. Wilson" <ka0bbq@worldnet.att.net>
Date: Sat, 21 Mar 1998 20:02:40 -0500
To: <mic-e@tapr.org>
Message-ID: <000f01bd552e$37e5b720$f1bf440c@barry>
Rendered body type: text/plain

I have programmed my Mic-Encoder with the following VIA string:

RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7

I am uncertain how to get the unit to transmit the UNPROTO PATH "RELAY,WIDE,WIDE" I have switched the unit through the various positions on the Path Switch (SW1) and receive different letter strings but I have never seen the unit send the path information after my callsign. The instruction sheet provided with the unit evidently is not clear on how to use the unit. At least I can't make heads or tails out of the instructions because what I think it says isn't happening.

Barry
ka0bbq@worldnet.att.net

60. Re: [MIC-E:1598] Help needed with PATH selection

From: kc5jgv@juno.com (J. S Ratchford)
Date: Sun, 22 Mar 1998 08:29:44 -0600
To: mic-e@tapr.org
Cc: mic-e@tapr.org
Message-ID: <19980322.083019.7086.6.kc5jgv@juno.com>
Rendered body type: text/plain

I'll agree with you on the instructions. My Mic-E still fails to work correctly and keys the damn radio all the time when turned OFF! I've asked for a schematic on where exactly to added the diode thingy, but no reply! If I could get that fixed I could show this thing off! As it turned out yesterday I had the perfect opertunity to show it off at in Springfiled MO at the SKYWARN organizational meeting. I was able to tell them how it worked, IN THEORY, but not operate it. I'm glad no one insisted in see it work!

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

On Sat, 21 Mar 1998 19:09:57 -0600 (CST) "Barry A. Wilson"
<ka0bbq@worldnet.att.net> writes:
>This is a multi-part message in MIME format.
>
>------=_NextPart_000_000C_01BD5504.4DC79EC0
>Content-Type: text/plain;
> charset="iso-8859-1"
>Content-Transfer-Encoding: quoted-printable
>
>I have programmed my Mic-Encoder with the following VIA string:
>

```
>   RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7
>
>I am uncertain how to get the unit to transmit the UNPROTO PATH   =
>"RELAY,WIDE,WIDE"   I have switched the unit through the various =
>positions on the Path Switch (SW1) and receive different letter
>strings =
>but I have never seen the unit send the path information after my =
>callsign.  The instruction sheet provided with the unit evidently is
>not =
>clear on how to use the unit.  At least I can't make heads or tails
>out =
>of the instructions because what I think it says isn't happening.
>
>Barry
>ka0bbq@worldnet.att.net
>
>------=_NextPart_000_000C_01BD5504.4DC79EC0
>Content-Type: text/html;
>       charset="iso-8859-1"
>Content-Transfer-Encoding: quoted-printable
>
><!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
><HTML>
><HEAD>
>
><META content=3Dtext/html;charset=3Diso-8859-1 =
>http-equiv=3DContent-Type>
><META content=3D'"MSHTML 4.72.2106.6"' name=3DGENERATOR>
></HEAD>
><BODY bgColor=3D#ffffff>
><DIV><FONT color=3D#000000 size=3D2>I have programmed my Mic-Encoder =
>with the=20
>following VIA string:</FONT></DIV>
><DIV><FONT color=3D#000000 size=3D2></FONT> </DIV>
><DIV><FONT color=3D#000000 size=3D2>  =20
>RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7</FONT></DIV>
><DIV> </DIV>
><DIV><FONT color=3D#000000 size=3D2>I am uncertain how to get the unit
>=
>to transmit=20
>the UNPROTO PATH   &quot;RELAY,WIDE,WIDE&quot;   I
>=
>have=20
>switched the unit through the various positions on the Path Switch
>(SW1) =
>and=20
>receive different letter strings but I have never seen the unit send
>the =
>path=20
>information after my callsign.  The instruction sheet provided
>with =
>the=20
>unit evidently is not clear on how to use the unit.  At least I =
>can't make=20
>heads or tails out of the instructions because what I think it says =
>isn't=20
>happening.</FONT></DIV>
><DIV><FONT color=3D#000000 size=3D2></FONT> </DIV>
><DIV><FONT color=3D#000000 size=3D2>Barry</FONT></DIV>
><DIV><FONT color=3D#000000 size=3D2><A=20
>href=3D"mailto:ka0bbq@worldnet.att.net">ka0bbq@worldnet.att.net</A></FONT=
>></DIV></BODY></HTML>
>
>------=_NextPart_000_000C_01BD5504.4DC79EC0--
>
>


_____________________________________________________________________
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```

61. Re: [MIC-E:1599] Re: Help needed with PATH selection

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sun, 22 Mar 1998 09:00:10 -0600
To: mic-e@tapr.org
Message-ID: <3515277A.DEFFDB5D@amsat.org>
Rendered body type: text/plain

Did you not get
         [MIC-E:1588] Field Change Order for Mic-E
that I posted a few days ago regarding this problem?

J. S Ratchford wrote:

> I'll agree with you on the instructions. My Mic-E still fails to work
> correctly and keys the damn radio all the time when turned OFF! I've
> asked for a schematic on where exactly to added the diode thingy, but no
> reply! If I could get that fixed I could show this thing off! As it
> turned out yesterday I had the perfect opertunity to show it off at in
> Springfiled MO at the SKYWARN organizational meeting. I was able to tell
> them how it worked, IN THEORY, but not operate it. I'm glad no one
> insisted in see it work!
>
> 73
>
> J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
> F.&A.M. Calf Creek Lodge #426
> email: kc5jgv@juno.com
>
> On Sat, 21 Mar 1998 19:09:57 -0600 (CST) "Barry A. Wilson"
> <ka0bbq@worldnet.att.net> writes:
> >This is a multi-part message in MIME format.
> >
> >------=_NextPart_000_000C_01BD5504.4DC79EC0
> >Content-Type: text/plain;
> >   charset="iso-8859-1"
> >Content-Transfer-Encoding: quoted-printable
> >
> >I have programmed my Mic-Encoder with the following VIA string:
> >
> >   RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7
> >
> >I am uncertain how to get the unit to transmit the UNPROTO PATH   =
> >"RELAY,WIDE,WIDE"   I have switched the unit through the various =
> >positions on the Path Switch (SW1) and receive different letter
> >strings =
> >but I have never seen the unit send the path information after my =
> >callsign. The instruction sheet provided with the unit evidently is
> >not =
> >clear on how to use the unit. At least I can't make heads or tails
> >out =
> >of the instructions because what I think it says isn't happening.
> >
> >Barry
> >ka0bbq@worldnet.att.net
> >
> >------=_NextPart_000_000C_01BD5504.4DC79EC0
> >Content-Type: text/html;
> >   charset="iso-8859-1"
> >Content-Transfer-Encoding: quoted-printable
> >
> ><!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
> ><HTML>
> ><HEAD>
> >
> ><META content=3Dtext/html;charset=3Diso-8859-1 =
> >http-equiv=3DContent-Type>
> ><META content=3D'"MSHTML 4.72.2106.6"' name=3DGENERATOR>
> ></HEAD>
> ><BODY bgColor=3D#ffffff>
> ><DIV><FONT color=3D#000000 size=3D2>I have programmed my Mic-Encoder =
> >with the=20
> >following VIA string:</FONT></DIV>
> ><DIV><FONT color=3D#000000 size=3D2></FONT> </DIV>
> ><DIV><FONT color=3D#000000 size=3D2> =20
> >RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7</FONT></DIV>
> ><DIV> </DIV>
> ><DIV><FONT color=3D#000000 size=3D2>I am uncertain how to get the unit
> >=
> >to transmit=20
> >the UNPROTO PATH   "RELAY,WIDE,WIDE"   I
> >=
> >have=20
> >switched the unit through the various positions on the Path Switch
> >(SW1) =
> >and=20

> >receive different letter strings but I have never seen the unit send
> >the =
> >path=20
> >information after my callsign. The instruction sheet provided
> >with =
> >the=20
> >unit evidently is not clear on how to use the unit. At least I =
> >can't make=20
> >heads or tails out of the instructions because what I think it says =
> >isn't=20
> >happening.</FONT></DIV>
> ><DIV><FONT color=3D#000000 size=3D2></FONT> </DIV>
> ><DIV><FONT color=3D#000000 size=3D2>Barry</FONT></DIV>
> ><DIV><FONT color=3D#000000 size=3D2><A=20
> >href=3D"mailto:ka0bbq@worldnet.att.net">ka0bbq@worldnet.att.net</A></FONT=
> >></DIV></BODY></HTML>
> >
> >------=_NextPart_000_000C_01BD5504.4DC79EC0--
> >
> >
>
> ____
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> Or call Juno at (800) 654-JUNO [654-5866]

--
Ron Parsons
W5RKN

62. Re: [MIC-E:1599] Re: Help needed with PATH selection

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Mar 1998 11:41:29 -0500 (EST)
To: mic-e@tapr.org
Cc: ka0bbq@worldnet.att.net
Message-ID: <Pine.SOL.3.96.980322113702.10565E-100000@arctic>
Rendered body type: text/plain

> <ka0bbq@worldnet.att.net> writes:
> >I have programmed my Mic-Encoder with the following VIA string:
> >
> >   RELAY,WIDE,WIDE,DIG4,DIG5,DIG6,DIG7
> >
> >I am uncertain how to get the unit to transmit the UNPROTO PATH   =
> >"RELAY,WIDE,WIDE"

If you dont see the path, then you have the MESSAGE switch in the "SSID"
half of its range. To *activate* DIGI mode, you must dial in messages on
the RIGHT half of the message switch. I know this is not a message
function, but there was not room for another switch on the front panel.

63. Re: [MIC-E:1599] Re: Help needed with PATH selection

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 22 Mar 1998 11:43:52 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980322114145.10565F-100000@arctic>
Rendered body type: text/plain

On Sun, 22 Mar 1998, J. S Ratchford wrote:

> I'll agree with you on the instructions. My Mic-E still fails to work
> correctly and keys the damn radio all the time when turned OFF! I've
> asked for a schematic on where exactly to added the diode thingy, but no
> reply!

See the message sent by Ron Parsons, MIC-E:1588, it includes a complete
BMP picture of the circuit board and where to add the diode.

64. Re: [MIC-E:1598] Help needed with PATH selection

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Sun, 22 Mar 98 23:18:36 EST
To: mic-e@tapr.org, "Barry A. Wilson" <ka0bbq@worldnet.att.net>
Message-ID: <CMM.0.90.4.890626716.alan@watsol>
Rendered body type: text/plain

To get relay,wide,wide set your path switch to 3 on the DIGI side. If
it's set to 3 on the SSID side then you are sending a compressed request

that very few digis understand just yet.
73 de Alan N2YGK

65. Yahoo!

From: kc5jgv@juno.com (J. S Ratchford)
Date: Fri, 27 Mar 1998 11:30:07 -0600
To: mic-e@tapr.org
Message-ID: <19980327.114601.7422.5.kc5jgv@juno.com>
Rendered body type: text/plain

Finally, after all the great help and images, I have got the RS radio
working woth the mic-e. Now I can turn off the mic-e and not have the
radio transmitting all the time. Also found that the reason I wasn't
being digipeated is that the SSID/DIGI switch is backwards! Jezz, who put
these things together?

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____
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Or call Juno at (800) 654-JUNO [654-5866]

66. KPC-4

From: kc5jgv@juno.com (J. S Ratchford)
Date: Fri, 27 Mar 1998 12:41:55 -0600
To: aprssig@tapr.org, digiowners@lounet.com, mic-e@tapr.org
Message-ID: <19980327.124156.7422.9.kc5jgv@juno.com>
Rendered body type: text/plain

Anyone have a KPC-4 that they want to sell? Send me e-mail......

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____
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67. Re: [MIC-E:1605] KPC-4

From: Jim Duncan <ku0g@kcaprs.org>
Date: Fri, 27 Mar 1998 12:57:25 -0600
To: mic-e@tapr.org
Message-ID: <351BF695.BB59F490@kcaprs.org>
Rendered body type: text/plain

I've got one, not really interested in selling BUT if the price was
right....How much you willing to spend?

J. S Ratchford wrote:
>
> Anyone have a KPC-4 that they want to sell? Send me e-mail......
>
> 73
>
> J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
> F.&A.M. Calf Creek Lodge #426
> email: kc5jgv@juno.com
>
> _____
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at http://www.juno.com
> Or call Juno at (800) 654-JUNO [654-5866]

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers
Mailto:ku0g@kcaprs.org

Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

68. Look Out Florida

From: kc5jgv@juno.com (J. S Ratchford)
Date: Mon, 30 Mar 1998 11:46:00 -0600
To: aprssig@tapr.org, mic-e@tapr.org, digiowners@lounet.com
Message-ID: <19980330.114601.18502.1.kc5jgv@juno.com>
Rendered body type: text/plain

Once again I am making a mad dash for the sunny state of Florida. Saying that, it'll probably rain all the way. Anyhoo, the trip will start out on Wednesday morning from my QTH to Memphis, Birmingham, and finally Atlanta. Thurs, should be from Atlanta to Jensen Beach Florida. Spend all day Friday, gotta make the money for the trip, I reckon. Saturday and Sunday will be a leisure trip back to the house. I'd be glad to stop and have a cup of coffee with anyone along the route back.

Shout at me, if'n you see my blimp-mobile.

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

_____
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Or call Juno at (800) 654-JUNO [654-5866]

69. APRS Digi database Form

From: "APRS Freq List Manager" <aprs-freq@tapr.org>
Date: Mon, 30 Mar 1998 16:58:03 +0000
To: aprs-sig@tapr.org
Cc: aprs-fl@tapr.org, mic-e@tapr.org, wb4moz@maco.net
Message-ID: <199803302158.QAA21371@mail.mia.bellsouth.net>
Rendered body type: text/plain

It make everything simpler for the North American APRS Digi Database TAPR has added a new web page for submission of new and updated digi information.

If you have already sent in your new digi's and updates to aprs-freq@tapr.org there is no need to send the information in again. Your data has been received (you should have seen an auto-reply message) and is being added to the list.

This new web form is for those who have not sent in information yet. Thanks to all who have sent updates already, the response have been very good. There have been a few that did not send in the data as needed but very few. I will personally reply to those as I work my way down the pile entering the data in the spreadsheet.

Reply to: aprs-freq@tapr.org
APRS Digi Database Info

70. Re: [MIC-E:1608] APRS Digi database Form

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 30 Mar 1998 21:05:43 -0600
To: mic-e@tapr.org, "APRS SIG list   mailing"<aprssig@tapr.org>
Message-ID: <v04003a19b1460db07e9c@[207.8.125.50]>
Rendered body type: text/plain

And the web page is:

        http://www.tapr.org/directory/aprsfreq.html

Cheers - Greg

>It make everything simpler for the North American APRS Digi Database
>TAPR has added a new web page for submission of new and updated digi
>information.
>
>If you have already sent in your new digi's and updates to
>aprs-freq@tapr.org there is no need to send the information in again.
>Your data has been received (you should have seen an auto-reply
>message) and is being added to the list.

>
>This new web form is for those who have not sent in information yet.
>Thanks to all who have sent updates already, the response have been
>very good. There have been a few that did not send in the data as
>needed but very few. I will personally reply to those as I work my
>way down the pile entering the data in the spreadsheet.
>
>
>Reply to: aprs-freq@tapr.org
>APRS Digi Database Info

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

Boren's Laws:
        (1) When in charge, ponder.
        (2) When in trouble, delegate.
        (3) When in doubt, mumble.

April 1998

Original source file: mic-e.9804
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9804

1. Mic-E Path and Msg Switches "Revealed"

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 03 Apr 1998 12:04:02 -0600
To: APRS-SIG <aprssig@tapr.org>, MIC-E <mic-e@tapr.org>
Message-ID: <35252492.64D918F2@amsat.org>
Rendered body type: text/plain

There has been some confusion in the meanings of the settings of the Path
and Msg switches on the Mic-E. Admittedly, the manual is not too clear.
I hope the following will add to the information content, not the
confusion factor.

Refer to the "APRS Mic Encoder Message Formats" section
in the Mic-E manual on page 22ff.

The three Message bits ABC with values 000 thru 111 (decimal 0-7), after

being complemented, are always encoded into the first three characters
of the Destination field. All other variables being zero, the resulting
eight values are [PPP, PP0, P0P, P00, 0PP, 0P0, 00P, 000]. Remember, the

destination field characters in AX.25 are right-shifted one bit with the

upper bit set to zero so that the characters are "printable".

1st 3 Dest.(hex)	Msg	~Msg
PPP = 50 50 50	000	111
PP0 = 50 50 30	001	110

When the Msg switch is set in the SSID segment, the Path switch sets the

Destination SSID to values 0-15 which are interpreted as a specially
encoded digipeater path, understood only by "APRS SSID digipeaters".
This is a "for the future" enhancement to digi's. The meaning of the
various SSIDs are defined in the table on page 23 of the Mic-E manual.

When the Msg switch is set in the DIGI segment, the Path switch sets the

UNPROTO path. With the Mic-E programmed with UNPROTO
D1,D2,D3,D4,D5,D6,D7,
the resulting UNPROTO path has the following values:

Path Sw.	UNPROTO path
0	<none>
1	D1
2	D1,D2
3	D1,D2,D3
4	D4
5	D4,D5
6	D4,D5,D6
7	D4,D5,D6,D7

With the Msg switch in the DIGI segment, both segments of the Path
switch
(0 thru 7) and (N thru W+) produce the same set of paths.

Some examples follow.

	Path	Msg
W5RKN-1>PP0PPP:'vXl [/	0	1 SSID
W5RKN-1>PP0PPP-1:'vXl [/	1	
W5RKN-1>PP0PPP-2:'vXl [/	2	
W5RKN-1>PP0PPP-7:'vXl [/	7	
W5RKN-1>PP0PPP-8:'vXl [/	N	
W5RKN-1>PP0PPP-9:'vXl [/	S	
W5RKN-1>PP0PPP-15:'vXl [/	W+	
W5RKN-1>PPPPPP:'vXl [/	0	0 DIGI
W5RKN-1>PPPPPP,D1:'vXl [/	1	
W5RKN-1>PPPPPP,D1,D2:'vXl [/	2	

```
W5RKN-1>PPPPPP,D1,D2,D3:'vXl [/         3
W5RKN-1>PPPPPP,D4:'vXl [/               4
W5RKN-1>PPPPPP,D4,D5:'vXl [/            5
W5RKN-1>PPPPPP,D4,D5,D6:'vXl [/         6
W5RKN-1>PPPPPP,D4,D5,D6,D7:'vXl [/      7

W5RKN-1>PP0PPP:'vXl [/                  0    1 DIGI
W5RKN-1>PP0PPP,D1:'vXl [/               1
W5RKN-1>PP0PPP,D1,D2:'vXl [/            2
W5RKN-1>PP0PPP,D1,D2,D3:'vXl [/         3
W5RKN-1>PP0PPP,D4:'vXl [/               4
W5RKN-1>PP0PPP,D4,D5:'vXl [/            5
W5RKN-1>PP0PPP,D4,D5,D6:'vXl [/         6
W5RKN-1>PP0PPP,D4,D5,D6,D7:'vXl [/      7


--
Ron Parsons
W5RKN
```

2. Mic-e/voice repeaters

From: Warren BOUDRIE <web@frontiernet.net>
Date: Sun, 05 Apr 1998 10:14:24 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980405101424.007b6820@pop3.frontiernet.net>
Rendered body type: text/plain

Does anyone know if there is a listing of voice repeaters in the U.S. that
support the Mic-e APRS application? Is there an effort to develop that
list if it does not exist?
I sure would be nice to know where they exist.

73 de Warren AA2LQ near Rochester NY

3. Re: [MIC-E:1611] Mic-e/voice repeaters

From: Wes Johnston <kd4rdb@usa.net>
Date: Sun, 05 Apr 1998 13:21:43 -0400
To: mic-e@tapr.org
Message-ID: <3.0.32.19980405132130.00689530@wingate>
Rendered body type: text/plain

if someone wants to compile a list perhaps for a new category in the ARRL
repeater hand book....

146.97- w4hbb Savannah GA MicE,CA

At 09:27 AM 4/5/98 -0500, you wrote:
>Does anyone know if there is a listing of voice repeaters in the U.S. that
>support the Mic-e APRS application? Is there an effort to develop that
>list if it does not exist?
>I sure would be nice to know where they exist.
>
>73 de Warren AA2LQ near Rochester NY
>
>

4. Re: [MIC-E:1611] Mic-e/voice repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 5 Apr 1998 15:32:53 -0400 (EDT)
To: mic-e@tapr.org
Cc: aprssig@tapr.org
Message-ID: <Pine.SOL.3.96.980405152738.25276C-100000@arctic>
Rendered body type: text/plain

On Sun, 5 Apr 1998, Warren BOUDRIE wrote:

> Does anyone know if there is a listing of voice repeaters in the U.S. that
> support the Mic-e APRS application? Is there an effort to develop that
> list if it does not exist?

APRSdos REPLY/COMMENT: Yes and no. I have been pushing this with my
MAPS-OVERLAYS-OTHER-2m-VOICE overlay file. It will plot on the map any
Mic-E repeaters AND/OR any wide area VOICE repeaters that welcome the long
distance traveler, But no one ever sends me any updates.

Imagine being mobile anywhere in the country, and all you do is hit the
comand above (or whatever it is in Mac/Win/Sa4) and you instanly see any
nearby VOICE repeater that caters to DX travelers (APRS guys)...
All we need is people to send in entries. Again, the name of the file is

2M-VOICE.POS distributed in all versions of APRSdos.

IS THERE A VOLUNTEER TO MAINTAIN THIS FILE? If it becomes as popular as
it SHOULD, then I will need help maintaining it.

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

5. Re: [MIC-E:1611] Mic-e/voice repeaters

From: "Gregory H. Faust" <n4pgs@mail.com>
Date: Sun, 05 Apr 1998 15:36:49 -0400
To: mic-e@tapr.org
Message-ID: <3.0.3.32.19980405153649.006b065c@cstone.net>
Rendered body type: text/plain

Warren, and other sig memebers,
  I agree, it would be nice to have a listing of these repeaters. For the
record, if
one is being kept, the Albemarle Amateur radio Club in Charlottesville,
Virginia has
a MIC-E compatible repeater on 146.76 MHz. Any MIC-E packets sent on this
repeater
are automatically routed to the Club's APRS digipeater on 145.79 (unless
there's an
APRS frequency change...) MIC-E packets are muted on the voice repeater, so
others won't
hear the packets, only APRS users should know about the activity. AARC
members have used
MIC-E units in mobile and bicycle mobile operations on the repeater and
invite any and all
APRS users to try the system in you're ever in the Charlottesville area.
73   Greg N4PGS

At 09:27 AM 4/5/98 -0500, you wrote:
>Does anyone know if there is a listing of voice repeaters in the U.S. that
>support the Mic-e APRS application? Is there an effort to develop that
>list if it does not exist?
>I sure would be nice to know where they exist.
>
>73 de Warren AA2LQ near Rochester NY
>
>
Greg Faust N4PGS
n4pgs@mail.com

6. Re: [MIC-E:1614] Re: Mic-e/voice repeaters

From: Wes Johnston <kd4rdb@usa.net>
Date: Sun, 05 Apr 1998 22:40:13 -0400
To: mic-e@tapr.org
Message-ID: <3.0.32.19980405224007.006aa5c8@wingate>
Rendered body type: text/plain

At 02:41 PM 4/5/98 -0500, you wrote:
>Warren, and other sig memebers,
>APRS frequency change...) MIC-E packets are muted on the voice repeater, so

Howd you do the mute? I am interupting the COR line to the controller...
and that fools the controller into thinking that there is no input signal,
so it mutes the audio for me, and begins counting toward the C Beep. by
the time the packet is finished, the C Beep plays, and no one is the wiser.

7. Mic-e/Powering via J2

From: Warren BOUDRIE <web@frontiernet.net>
Date: Mon, 06 Apr 1998 15:06:47 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980406150647.007ba140@pop3.frontiernet.net>
Rendered body type: text/plain

My Mic-e works fine when powered by the power Jack (J1). However, I wish
to power it using Pin 4 (+12v) and Pin 5 (gnd) on the serial port (J2).
That way, I can wire up a cigarette lighter cord/plug to power both the
mic-e and my Garmin.

I've jumpered SP1 per directions on pg 13 and have 12 volts on the run that
leads to D4 but am unable to make the unit work. Do I need to reposition
any jumpers on the board after jumpering SP1 and applying 12v to the
appropriate pins on J2?

Warren, AA2LQ

8. Re: [MIC-E:1613] Re: Mic-e/voice repeaters

From: "APRS Freq List Manager" <aprs-freq@tapr.org>
Date: Mon, 6 Apr 1998 17:46:22 +0000
To: mic-e@tapr.org, aprssig@tapr.org
Cc: wd5ivd@tapr.org
Message-ID: <199804062147.RAA27072@mail.mia.bellsouth.net>
Rendered body type: text/plain

Well this was never thought of at first but it is a good point. I
will talk this over with Greg and see if some modifications can be
made to the existing on-line TAPR form.

Please no submissions just yet. I have tons of listings that came in
within a matter of a few weeks, this was before the TAPR on-line
entry form. The form makes things much easier but 98% of the
submissions were made before the form went on line. I have a lot of
catching up to do!

Once some changes are made I will advise everyone and then you can
submit any MIC-E information.

> Date: Sun, 5 Apr 1998 14:33:38 -0500 (CDT)
> Reply-to: mic-e@tapr.org
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: mic-e@tapr.org
> Subject: [MIC-E:1613] Re: Mic-e/voice repeaters

> On Sun, 5 Apr 1998, Warren BOUDRIE wrote:
>
> > Does anyone know if there is a listing of voice repeaters in the U.S. that
> > support the Mic-e APRS application? Is there an effort to develop that
> > list if it does not exist?
>

> IS THERE A VOLUNTEER TO MAINTAIN THIS FILE? If it becomes as popular as
> it SHOULD, then I will need help maintaining it.
>
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>
>
Reply to: aprs-freq@tapr.org
APRS Digi Database Info

9. Re: [MIC-E:1616] Mic-e/Powering via J2

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 06 Apr 1998 18:09:46 -0500
To: mic-e@tapr.org
Message-ID: <352960BA.E151C9AB@amsat.org>
Rendered body type: text/plain

Looking at the schematic, I don't see any needed jumper changes. By "unable to
make the unit work", what are the symptoms? Are the LEDs lighting? ...

Warren BOUDRIE wrote:

> My Mic-e works fine when powered by the power Jack (J1). However, I wish
> to power it using Pin 4 (+12v) and Pin 5 (gnd) on the serial port (J2).
> That way, I can wire up a cigarette lighter cord/plug to power both the
> mic-e and my Garmin.
>
> I've jumpered SP1 per directions on pg 13 and have 12 volts on the run that
> leads to D4 but am unable to make the unit work. Do I need to reposition
> any jumpers on the board after jumpering SP1 and applying 12v to the
> appropriate pins on J2?
>
> Warren, AA2LQ

--
Ron Parsons
W5RKN

10. Re: [MIC-E:1618] Re: Mic-e/Powering via J2

From: Warren BOUDRIE <web@frontiernet.net>
Date: Tue, 07 Apr 1998 07:22:02 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980407072202.007bb5a0@pop3.frontiernet.net>
Rendered body type: text/plain

Symptom is that the LEDs do not light. Any suggestions?

At 10:49 PM 4/6/98 -0500, you wrote:
>Looking at the schematic, I don't see any needed jumper changes. By
"unable to
>make the unit work", what are the symptoms? Are the LEDs lighting? ...
>
>Warren BOUDRIE wrote:
>
>> My Mic-e works fine when powered by the power Jack (J1). However, I wish
>> to power it using Pin 4 (+12v) and Pin 5 (gnd) on the serial port (J2).
>> That way, I can wire up a cigarette lighter cord/plug to power both the
>> mic-e and my Garmin.
>>
>> I've jumpered SP1 per directions on pg 13 and have 12 volts on the run that
>> leads to D4 but am unable to make the unit work. Do I need to reposition
>> any jumpers on the board after jumpering SP1 and applying 12v to the
>> appropriate pins on J2?
>>
>> Warren, AA2LQ
>
>
>
>--
>Ron Parsons
>W5RKN
>
>
>
>

11. ground loops

From: GStory@icomply.com
Date: Tue, 7 Apr 1998 09:49:30 -0500
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B90E@lew_prods1.icomply.com>
Rendered body type: text/plain

Has anyone run into a problem with a ground loop between the mic-e and a
mobile radio? I am running each unit on seperate points in my truck. The
mic-e is running of the cig lighter and the radio from the positive 12 volts
on the bus bar on the fire wall. I realize the cig lighter may be the
problem but was just curious. The loop is not corrupting data but does get
me comments when going through a voice repeater.
Guy Story
International Compliance Corporation
802 N. Kealy
Lewisville, TX 75057-3136
voice: 972.436.9600
fax: 972.436.2667
email: gstory@icomply.com
webpage: http://www.icomply.com
"These are my views not necessarily my employer's views"
Guy Story
International Compliance Corporation
802 N. Kealy
Lewisville, TX 75057-3136
voice: 972.436.9600
fax: 972.436.2667
email: gstory@icomply.com
webpage: http://www.icomply.com
"These are my views not necessarily my employer's views"

12. Re: [MIC-E:1620] ground loops

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 7 Apr 1998 11:40:32 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980407113759.13179A-100000@arctic>
Rendered body type: text/plain

The number one problem anticipated with the Mic-E was ground loops. Did
you use the separate Mic gound of your radio instead of hooking to common
ground? If it is hearable on voice, then it is degrading your packet
tones too. It may work with a good signal, but you will not get the range
of a good signal with it that way... Good luck... :-)
bob

 On Tue, 7 Apr 1998 GStory@icomply.com
wrote:

> Has anyone run into a problem with a ground loop between the mic-e and a
> mobile radio? I am running each unit on seperate points in my truck. The
> mic-e is running of the cig lighter and the radio from the positive 12 volts
> on the bus bar on the fire wall. I realize the cig lighter may be the
> problem but was just curious. The loop is not corrupting data but does get
> me comments when going through a voice repeater.
> Guy Story
> International Compliance Corporation
> 802 N. Kealy
> Lewisville, TX 75057-3136
> voice: 972.436.9600
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> email: gstory@icomply.com
> webpage: http://www.icomply.com
> "These are my views not necessarily my employer's views"
> Guy Story
> International Compliance Corporation
> 802 N. Kealy
> Lewisville, TX 75057-3136
> voice: 972.436.9600
> fax: 972.436.2667
> email: gstory@icomply.com
> webpage: http://www.icomply.com
> "These are my views not necessarily my employer's views"
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

13. Re: [MIC-E:1620] ground loops

From: rwf <rwf@BSRG.org>
Date: Tue, 07 Apr 1998 19:47:07 -0400
To: mic-e@tapr.org
Message-ID: <199804080017.UAA20378@cocacola-bh.cokecce.com>
Rendered body type: text/plain

Guy-

I *always* had problems. That is why I quit using the Mic-E and sold it.
Bob felt that the grounds between the power and microphone should be kept
apart.
I only had clean audio when powering the mic-e and GPS from a battery.
Otherwise, the GPS digital noise in the radio's transmitted audio was
almost as loud as the voice.

I have another Mic-E now, but haven't had time to mess with it again

Ralph

14. ground loops

From: "Warren Merkel" <kd4zdd@amsat.org>
Date: Wed, 8 Apr 1998 12:37:28 -0400
To: mic-e@tapr.org
Message-ID: <199804081636.MAA16796@magicnet.magicnet.net>
Rendered body type: text/plain

(Guy wrote)
>Has anyone run into a problem with a ground loop between the mic-e and a
>mobile radio?

(Bob wrote)
> The number one problem anticipated with the Mic-E was ground loops. Did
> you use the separate Mic gound of your radio instead of hooking to common
> ground?

(Ralph wrote)
> I *always* had problems. That is why I quit using the Mic-E and sold it.
> Bob felt that the grounds between the power and microphone should be kept
> apart.
> I only had clean audio when powering the mic-e and GPS from a battery.
> Otherwise, the GPS digital noise in the radio's transmitted audio was
> almost as loud as the voice.

Yes, I have a major alternator 'whine' in the TX audio from my MIC-E. It doesn't
seem to be GPS hash however. It varies pitch with engine RPM.

Yes Bob, my grounds are totally separate -- up to the MIC-E box.   My install
is using the 'Feed from radio' option from a Kenwood TM732 RJ45. The MIC-E
voltage regulator is bypassed as the RJ45 pwr is only 5.1 volts. (8 volts is spec)

The noise is even worse if I power the MIC-E from the same source as the GPS
power feed!

The GPS is a external Encore XT which is powered from the same feed point
as the TM-732 (Star ground technique) The GPS board is too large to mount
inside the MIC-E so that option is out until I retire the XT.

If I remove the miniplug data feed from the GPS, the noise vanishes.   This
seems to point to the disimilar ground paths of the MIC-E and the GPS itself.

I am working towards an optoisolator solution on the GPS data side.

Warren Merkel
Custom Micro Systems
warren@clientprofiles.com

15. Re: [MIC-E:1623] ground loops

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 8 Apr 1998 14:53:50 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980408145042.3832H-100000@arctic>
Rendered body type: text/plain

On Wed, 8 Apr 1998, Warren Merkel wrote:

> Yes, I have a major alternator 'whine' in the TX audio from my MIC-E.
> It doesn't seem to be GPS hash however. It varies pitch with engine RPM.
>
> Yes Bob, my grounds are totally separate -- up to the MIC-E box.   My install
> is using the 'Feed from radio' option from a Kenwood TM732 RJ45. The MIC-E
> voltage regulator is bypassed as the RJ45 pwr is only 5.1 volts. (8 volts is spec)

Im not sure what feed from radio means. But I am talking about the
kenwoods "mic-gnd" must be separate from all other grounds and connected
ONLY to the "mic-gnd" output of the Mic-E which is also not connected to
any other ground.

> The noise is even worse if I power the MIC-E from the same source as the GPS
> power feed!
>
> The GPS is a external Encore XT which is powered from the same feed point
> as the TM-732 (Star ground technique) The GPS board is too large to mount
> inside the MIC-E so that option is out until I retire the XT.
>
> If I remove the miniplug data feed from the GPS, the noise vanishes.   This
> seems to point to the disimilar ground paths of the MIC-E and the GPS itself.
>
> I am working towards an optoisolator solution on the GPS data side.
>

>
>
>
> Warren Merkel
> Custom Micro Systems
> warren@clientprofiles.com
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

16. Re: ground loops

From: "Warren Merkel" <kd4zdd@amsat.org>
Date: Wed, 8 Apr 1998 16:06:44 -0400
To: mic-e@tapr.org
Message-ID: <199804082005.QAA25700@magicnet.magicnet.net>
Rendered body type: text/plain

> >
> > Yes Bob, my grounds are totally separate -- up to the MIC-E box.   My install
> > is using the 'Feed from radio' option from a Kenwood TM732 RJ45. The MIC-E
> > voltage regulator is bypassed as the RJ45 pwr is only 5.1 volts. (8 volts is spec)
>
> Im not sure what feed from radio means. But I am talking about the
> kenwoods "mic-gnd" must be separate from all other grounds and connected
> ONLY to the "mic-gnd" output of the Mic-E which is also not connected to
> any other ground.
>

We are talking about power here Bob. When I said 'feed' , I am refering to the
method of powering the Mic-E box FROM THE RADIO MICROPHONE JACK.
(RJ45) and NOT FEEDING POWER INTO THE Mic-E BOX THROUGH THE
BACK PANEL DC BARREL CONNECTOR.   (This is a published option in the
Mic-E construction manual.)

As I said above, my grounds are totally separate -- up to the MIC-E box. I am
specifically speaking of the two "grounds" available from the TM-732 RJ45 Mic
jack. The grounds are separate! How else can I state this more clearly?

Both ground connections are handled at the DIP header inside the MIC-E.

Being at the office, I can't pick up the diagrams and spit out pin numbers, but
they are separate and the voice audio still sings with alternator whine. The
ground loop is occuring due to a potential difference between the GPS data
ground wire and (I suspect) the mic-gnd pin on the RJ45 microphone connector.
This is why I am working on optoisolation for the Data input.

Warren Merkel
Custom Micro Systems
warren@clientprofiles.com

17. Re: [MIC-E:1625] Re: ground loops

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 8 Apr 1998 17:08:33 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980408170814.25146C-100000@arctic>
Rendered body type: text/plain

ok, let us know what you work out...

On Wed, 8 Apr 1998, Warren Merkel wrote:

> > >
> > > Yes Bob, my grounds are totally separate -- up to the MIC-E box.   My install
> > > is using the 'Feed from radio' option from a Kenwood TM732 RJ45. The MIC-E
> > > voltage regulator is bypassed as the RJ45 pwr is only 5.1 volts. (8 volts is spec)
> > >
> > > Im not sure what feed from radio means. But I am talking about the
> > > kenwoods "mic-gnd" must be separate from all other grounds and connected
> > > ONLY to the "mic-gnd" output of the Mic-E which is also not connected to
> > > any other ground.
> > >
>

> We are talking about power here Bob. When I said 'feed' , I am refering to the
> method of powering the Mic-E box FROM THE RADIO MICROPHONE JACK.
> (RJ45) and NOT FEEDING POWER INTO THE Mic-E BOX THROUGH THE
> BACK PANEL DC BARREL CONNECTOR.   (This is a published option in the
> Mic-E construction manual.)
>
> As I said above, my grounds are totally separate -- up to the MIC-E box. I am
> specifically speaking of the two "grounds" available from the TM-732 RJ45 Mic
> jack. The grounds are separate! How else can I state this more clearly?
>
> Both ground connections are handled at the DIP header inside the MIC-E.
>
> Being at the office, I can't pick up the diagrams and spit out pin numbers, but
> they are separate and the voice audio still sings with alternator whine. The
> ground loop is occuring due to a potential difference between the GPS data
> ground wire and (I suspect) the mic-gnd pin on the RJ45 microphone connector.
> This is why I am working on optoisolation for the Data input.
>
> Warren Merkel
> Custom Micro Systems
> warren@clientprofiles.com
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

18. Re: [MIC-E:1623] ground loops

From: rwf <rwf@BSRG.org>
Date: Wed, 08 Apr 1998 22:06:45 -0400
To: mic-e@tapr.org
Message-ID: <Version.32.19980408220610.01192490@ccegate.cokecce.com>
Rendered body type: text/plain

Warren wrote:

>I am working towards an optoisolator solution on the GPS data side.

Ahh.. a great idea!

19. Re: [MIC-E:1624] Re: ground loops

From: rwf <rwf@BSRG.org>
Date: Wed, 08 Apr 1998 22:08:30 -0400
To: mic-e@tapr.org
Message-ID: <Version.32.19980408220708.01029340@ccegate.cokecce.com>
Rendered body type: text/plain

I'm not Warren, but my mic-e mic ground and kenwood mic-gnd were connected
this way and I had GPS noise all the way from the beta days!
Ralph

Bob wrote:

>Im not sure what feed from radio means. But I am talking about the
>kenwoods "mic-gnd" must be separate from all other grounds and connected
>ONLY to the "mic-gnd" output of the Mic-E which is also not connected to
>any other ground.

20. Re: [MIC-E:1613] Re: Mic-e/voice repeaters

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 8 Apr 98 22:48:23 EDT
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.892090103.alan@watsol>
Rendered body type: text/plain

>Imagine being mobile anywhere in the country, and all you do is hit the

When I'm mobile anyhwere in the country with my MIC-E I don't have a computer
necessarily that I can hit any keys on!

Add to the list: WB2ZII, 147.060+, pl114.8 Valhalla, NY

73 de Alan N2YGK

21. Re: [MIC-E:1629] Re: Mic-e/voice repeaters

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 9 Apr 1998 09:12:32 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980409091203.21628A-100000@arctic>
Rendered body type: text/plain

On Wed, 8 Apr 1998, Alan Crosswell wrote:

> Add to the list: WB2ZII, 147.060+, pl114.8 Valhalla, NY

Cant add it to the list without a LAT/LONG

22. ground loop

From: GStory@icomply.com
Date: Thu, 9 Apr 1998 10:29:58 -0500
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B91D@lew_prods1.icomply.com>
Rendered body type: text/plain

Hello everyone, I did not mean to start a big tado about the ground loop problem, but since it is out in the open I need to elaborate on what I have found. If I run the mic-e off of a battery source then the digital noise is not on the audio.
Bob, my mic-e is setup the way the instructions with the kit state. I have not taken the time yet to look over how the grounds are run. Am I correct in believing that the ground for the mic "passes through" and does not have any direct connections to the mic-e? I still need to explore the way I have the power run in my truck before I start trying to do too much to the mic-e. I have alternator whine on the audio anyway. What I am going to try and do is go to a center point on the truck with a filter between the battery and that point. Then I will take the power for the mic-e and radio from there. The mic-e is currently getting power via the cig. lighter and does not have a good ground right now. I did not want to power the mic-e via the radio since I am using a Garmin 20.
Oh by the way Bob, congratulations on the award. You have done a good job on the APRS. I have been able to get some people in the Denton County area involved.

Guy Story
International Compliance Corporation
802 N. Kealy
Lewisville, TX 75057-3136
voice: 972.436.9600
fax: 972.436.2667
email: gstory@icomply.com
webpage: http://www.icomply.com
"These are my views not necessarily my employer's views"
Guy Story
International Compliance Corporation
802 N. Kealy
Lewisville, TX 75057-3136
voice: 972.436.9600
fax: 972.436.2667
email: gstory@icomply.com
webpage: http://www.icomply.com
"These are my views not necessarily my employer's views"

23. Re: [MIC-E:1631] ground loop

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 9 Apr 1998 15:38:34 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980409153301.13912F-100000@arctic>
Rendered body type: text/plain

THis is a good discussion, ground loops are tuff. The separate mic-gnd between the audio adjust pot and the mic-gnd of the radio assures that any internal Mic-e digital noise is significantly attenuated. It does not help with grond loops with an external GPS necessarily. One thing to be sure of is to use the highest impedance resistor in the Mic-E XMT audio circuit that will still allow you sufficient audio level. In other words, start with J3 in the 62K position and see if you can get sufficient audio levels that way.. with the audio level adjsut pot. if not, then use the 10k, but avoid the 1k if at all possible... Let us know what you find

out...

 On Thu, 9 Apr 1998 GStory@icomply.com wrote:

> Hello everyone, I did not mean to start a big tado about the ground loop
> problem, but since it is out in the open I need to elaborate on what I have
> found. If I run the mic-e off of a battery source then the digital noise is
> not on the audio.
>   Bob, my mic-e is setup the way the instructions with the kit state.
> I have not taken the time yet to look over how the grounds are run. Am I
> correct in believing that the ground for the mic "passes through" and does
> not have any direct connections to the mic-e? I still need to explore the
> way I have the power run in my truck before I start trying to do too much to
> the mic-e. I have alternator whine on the audio anyway. What I am going to
> try and do is go to a center point on the truck with a filter between the
> battery and that point. Then I will take the power for the mic-e and radio
> from there. The mic-e is currently getting power via the cig. lighter and
> does not have a good ground right now. I did not want to power the mic-e
> via the radio since I am using a Garmin 20.
>   Oh by the way Bob, congratulations on the award. You have done a
> good job on the APRS. I have been able to get some people in the Denton
> County area involved.
>
> Guy Story
> International Compliance Corporation
> 802 N. Kealy
> Lewisville, TX 75057-3136
> voice: 972.436.9600
> fax: 972.436.2667
> email: gstory@icomply.com
> webpage: http://www.icomply.com
> "These are my views not necessarily my employer's views"
> Guy Story
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> voice: 972.436.9600
> fax: 972.436.2667
> email: gstory@icomply.com
> webpage: http://www.icomply.com
> "These are my views not necessarily my employer's views"
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

24. MIC-E XMIT when turned off

From: DJZZ <DJZZ@WORLDNET.ATT.NET>
Date: Thu, 9 Apr 1998 19:56:23 -0400
To: "'mic-e@tapr.org'" <mic-e@tapr.org>
Message-ID: <01BD63F1.9684DDC0@dmdwnjdz>
Rendered body type: text/plain

Hi all,

I completed the Mic-e as described in the manual, configured for the TM-741. But when I turn the Mic-e off, it causes the radio to go into transmit.

I have tried powering the Mic-e from the external jack as well as from the radio with the same results.

Is anyone aware of a fix for this condition

KA1BII

25. Re: [MIC-E:1633] MIC-E HELP

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 9 Apr 1998 22:03:38 -0600
To: mic-e@tapr.org
Message-ID: <v03102802b15348b91028@[206.50.200.133]>
Rendered body type: text/plain

>Hi all,
>
>I completed the Mic-e as described in the manual,

New builders should not overlook the TAPR mic-e sig archive that is
searchable by title and content.

www.tapr.org   see sig area

The wisdom of the ages is stored there.
Give it a try - Search for wisdon -- Tomorrow !

                and you will get this mail message :-)

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

26. Mic-e to M120

From: Peter Bennett <pbennett@guate.net>
Date: Thu, 23 Apr 1998 14:46:09 -0500
To: mic-e@tapr.org
Message-ID: <353F9A81.215A1008@guate.net>
Rendered body type: text/plain

Hello all,

I want to interface a mic-e with a motorola M120, does someone has the
personality dip header settings?

TIA
Peter Bennett

27. Garmin 25

From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Date: Wed, 29 Apr 1998 20:52:53 -0500
To: <mic-e@tapr.org>
Message-ID: <01bd73da$b08346a0$6fcf2bcf@guy->
Rendered body type: text/plain

Hello everyone, got a quick, easy question. I guarantee easy too. Got a
friend asking about the Garmin 25, can it be mounted inside the mic-e?
Guy Story, KC5GOI
5301 East McKinney # 417
Denton Texas, 76208
940.243.0754
kc5goi@infospeedway.net

28. Re: [MIC-E:1636] Garmin 25

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 29 Apr 1998 22:15:00 -0400
To: <mic-e@tapr.org>
Message-ID: <199804300214.VAA11498@tapr.org>
Rendered body type: text/plain

On 4/29/98 9:57 PM Guy Story, KC5GOI (kc5goi@infospeedway.net) wrote:

>Hello everyone, got a quick, easy question. I guarantee easy too. Got a
>friend asking about the Garmin 25, can it be mounted inside the mic-e?

Yup, I'm using one in mine and it works great!

Steve K4HG

29. Re: [MIC-E:1636] Garmin 25

From: "Steven R. Bible" <srbible@gate.net>
Date: Wed, 29 Apr 1998 22:17:39 -0400
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19980429221739.007c6c20@pop.gate.net>
Rendered body type: text/plain

At 08:57 PM 4/29/98 -0500, you wrote:
>Hello everyone, got a quick, easy question. I guarantee easy too. Got a
>friend asking about the Garmin 25, can it be mounted inside the mic-e?
>Guy Story, KC5GOI
>5301 East McKinney # 417
>Denton Texas, 76208

>940.243.0754
>kc5goi@infospeedway.net

Easy answer - yes

- Steve, N7HPR
(n7hpr@tapr.org)

30. Header info for Yaesu FT3000

From: Allen Beadel <allenb@cowtownrv.com>
Date: Wed, 29 Apr 1998 22:53:09 -0500
To: mic-e@tapr.org
Message-ID: <3547F5A4.444D246D@cowtownrv.com>
Rendered body type: text/plain

Help!! Friend is having trouble configuring mic header to work properly with Yaesu FT (H?) 3000. Any help? Also having another (related?) problem. PTT/RCV led shows yellow all the time.

Thanks!!

31. Kenwood TM733 mic probelm

From: Allen Beadel <allenb@cowtownrv.com>
Date: Wed, 29 Apr 1998 22:54:57 -0500
To: mic-e@tapr.org
Message-ID: <3547F611.6F81246C@cowtownrv.com>
Rendered body type: text/plain

Mic-E works fine with my TM733, but all of a sudden the radio seems to have developed a problem. The microphone is dead when hooked straight to the radio. No PTT, no function buttons, nothing. If I hook it back up the Mic-E, then to hook the Mic-e up the radio, the microphone works fine. Any ideas??

Thanks!!

32. Re: [MIC-E:1640] Kenwood TM733 mic probelm

From: "Jeffrey Komori - KH6JUZ" <jeffk@jeffk.com>
Date: Wed, 29 Apr 1998 21:39:25 -0700
To: mic-e@tapr.org, mic-e@baker-to-vegas.org, techteam@baker-to-vegas.org
Cc: Allen Beadel <allenb@cowtownrv.com>
Message-ID: <3.0.5.32.19980429213925.0089f7c0@jeffk.com>
Rendered body type: text/plain

At 11:00 PM 4/29/98 -0500, Allen Beadel wrote:
>Mic-E works fine with my TM733, but all of a sudden the radio seems to
>have developed a problem. The microphone is dead when hooked straight
>to the radio. No PTT, no function buttons, nothing. If I hook it back
>up the Mic-E, then to hook the Mic-e up the radio, the microphone works
>fine. Any ideas??
>
>Thanks!!

This has happened to the TM733A as well as the TM-V7A in our group. One of our members ran a separate ground from the microphone to the radio and the microphone started working again. This has not happened to the TM-{6,7,9}42A series radio. We are not sure why the microphone ceases to work after being used with a Mic-E.

Jeffrey Komori, KH6JUZ
APRS Core Technical Committee
Baker to Vegas Challenge Cup Relay Amateur Radio Support
Fremont / Union City / Alameda County / Temple Station
http://www.baker-to-vegas.org/

33. Re: [MIC-E:1641] Re: Kenwood TM733 mic probelm

From: Wes Johnston <kd4rdb@eagnet.com>
Date: Thu, 30 Apr 1998 07:36:50 -0400
To: mic-e@tapr.org
Cc: kd4rdb@usa.net
Message-ID: <3.0.32.19980430073649.0069481c@wingate>
Rendered body type: text/plain

I removed the ground from my radio while a TNC was plugged in to the 733, and the radio (may have) tried to xmit. This popped the ground trace from

the mic lead on the circuit board. Had to solder a jumper back in... very
tight work in there between the mic plug and data jack. good luck.

At 11:41 PM 4/29/98 -0500, you wrote:
>At 11:00 PM 4/29/98 -0500, Allen Beadel wrote:
>>Mic-E works fine with my TM733, but all of a sudden the radio seems to
>>have developed a problem. The microphone is dead when hooked straight
>>to the radio. No PTT, no function buttons, nothing. If I hook it back
>>up the Mic-E, then to hook the Mic-e up the radio, the microphone works
>>fine. Any ideas??
>>
>>Thanks!!
>
>This has happened to the TM733A as well as the TM-V7A in our group. One of
>our members ran a separate ground from the microphone to the radio and the
>microphone started working again. This has not happened to the
>TM-{6,7,9}42A series radio. We are not sure why the microphone ceases to
>work after being used with a Mic-E.
>
>
>Jeffrey Komori, KH6JUZ
>APRS Core Technical Committee
>Baker to Vegas Challenge Cup Relay Amateur Radio Support
>Fremont / Union City / Alameda County / Temple Station
>http://www.baker-to-vegas.org/
>
>
Wes
Email: mailto:kd4rdb@usa.net
A good traveler has no fixed plans and is not intent on arriving.

34. Re: [MIC-E:1640] Kenwood TM733 mic probelm

From: Zonker Harris <zonkerh@corp.webtv.net>
Date: Thu, 30 Apr 1998 08:47:07 +0100
To: mic-e@tapr.org, mic-e@baker-to-vegas.org, techteam@baker-to-vegas.org
Cc: Allen Beadel <allenb@cowtownrv.com>
Message-ID: <v03007802b16dd8623c1c@[172.17.3.154]>
Rendered body type: text/plain

>At 11:00 PM 4/29/98 -0500, Allen Beadel wrote:
>>Mic-E works fine with my TM733, but all of a sudden the radio seems to
>>have developed a problem. The microphone is dead when hooked straight
>>to the radio. No PTT, no function buttons, nothing. If I hook it back
>>up the Mic-E, then to hook the Mic-e up the radio, the microphone works
>>fine. Any ideas??

  Jeff (and others),

  Here's some additional information about the TM-733 post-MicE failures;

  1) The damage seems 'permanent'. That is, it will take some type of trip
      to a repair staion at this point to restore 'normal' operation.
  2) The affected units originally started using the MicE when both the
      radio and the MicE had (power and ground) hookups to a shared
      power source. These units displayed the alternator-whine interference
      discussed on the group earlier, and the suspicion was a ground loop.
  3) Our 'fix' for the ground loop was to remove the ground connection from
      the MicE power cable, and rely on the ground for the device being
      sinked through the radio-to-MicE cable.
  4) These 'crippled' radios have been restored to service using an RJ45
      straight-through cable, connected to an adapter (RJ45-to-RJ45, female
      to female) which has been modified to connect a wire from the 'ground'
      lead for the microphone, allowing us to provide this ground from an
      external connection.
  5) One radio (TM-V7A) connected this 'mic ground' to the 'sleeve' of one
      of the radios speaker jacks, and all seems to be working fine.
  6) One radio (TM-733) connected the 'mic ground' to the ground of the
      power harness, and found that the ground loop had returned (due
      to the return of alternator whine).
  7) These radios continue to work fine without an adapter, if using a
      MicE back in the path. (This leads me to believe that the 'needed
      ground; is coming into the MicE on another lead from the radio, and
      this may have somehow been responsible for the 'damage' to the
      radio which causes the symptoms discussed here.

  In summary, I would recommend that folks use discretion and caution when
connecting the MicE to Kenwood readios (at *least* the 733 and V7A), in
order to prevent damage to the radios.

Is there anyone on the list with an in-depth knowledge of the Kenwood radios discussed here, who could make suggestions about this failure mode? We would be happy to detail the header and MicE mic-plug wiring we used, and try to determine if this could have been avoided.

N6UOW

David K. Z. Harris, N6UOW ax.25: N6UOW@N6QMY.#nca.ca.usa.noam
email: n6uow@baker-to-vegas.org ILERA #542

_____/ Check our Baker to Vegas web pages; _____

http://www.baker-to-vegas.org The main page
http://www.baker-to-vegas.org/overview.html Wiring and cabling pages
http://www.baker-to-vegas.org/staffing.html Volunteer sign-up page
http://www.baker-to-vegas.org/pictures The photo gallery

35. Re: [MIC-E:1640] Kenwood TM733 mic probelm

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 30 Apr 98 12:12:05 EDT
To: mic-e@tapr.org
Cc: mic-e@tapr.org
Message-ID: <CMM.0.90.4.893952725.alan@watsol>
Rendered body type: text/plain

> Mic-E works fine with my TM733, but all of a sudden the radio seems to
> have developed a problem. The microphone is dead when hooked straight
> to the radio. No PTT, no function buttons, nothing. If I hook it back
> up the Mic-E, then to hook the Mic-e up the radio, the microphone works
> fine. Any ideas??
>
> Thanks!!
>

The TM733 has two ground paths in the Mic. It is possible that one of them got broken and when using the Mic-E you are using the other ground path. One is for the mic audio, and the other is for everything else. When first connecting my Mic-E to the 733 I inadvertenly shorted the 7V(??) power pin to ground which blew the surface mount fuse which is *in the ground circuit*. I have the repair manual for the rig so was able to trace it out and order the replacement fuse and do the repair.... Check your rig's ckt diagram and see if one of the two ground lines in the mic jack no longer has ground continuity. If this is the case, suspect that you've toasted the fuse. Repair requires dissassembly of section behind the detachable head and surface mount soldering of a fairly large component (the fuse).

At least they used a surface mount fuse. I did a similar bonehead thing to my ICOM FT-840 and 1 inch of copper foil became the fuse. I did similar to a Paccom Tiny-2 to one of the RS-232 pins and two logic ICs, two EPROMs, and a RAM "fused." Hmm. I detect a pattern here: Don't let me anywhere near your equipment:-)

73 de Alan N2YGK

PS: The repair entails removing backup power from the CPU, so all the settings revert to factory default. Write them down first:-) I still haven't reprogrammed all the memorized autodials and stuff on mine....

36. Re: [MIC-E:1643] Re: Kenwood TM733 mic probelm

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 30 Apr 98 12:52:22 EDT
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.893955142.alan@watsol>
Rendered body type: text/plain

> 4) These 'crippled' radios have been restored to service using an RJ45
> straight-through cable, connected to an adapter (RJ45-to-RJ45, female
> to female) which has been modified to connect a wire from the 'ground'
> lead for the microphone, allowing us to provide this ground from an
> external connection.

I strongly recommend making sure a fuse is in the ground lead. As I mentioned in my followup, rather than putting fuses in the 4 or 5 +V lines coming to the Mic jack, Kenwood put a single fuse on the ground return line. Most likely, this fuse is popped.

73 de Alan N2YGK

37. Re: [MIC-E:1643] Re: Kenwood TM733 mic probelm

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 30 Apr 1998 14:53:10 -0400 (EDT)
To: Zonker Harris <zonkerh@corp.webtv.net>
Cc: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980430144338.8254F-100000@arctic>
Rendered body type: text/plain

By now you have seen the message posted by Wes Johnson KD4RDB
explaining why this has occurred. No matter what you connect to the MIC
connection, be it a Mic-E or anything else, if that device, no matter what
it is, has a path to ground, AND if the radio itself ever developes a
LOOSE or OPEN ground, then the full 4 to 8 amp transmit current tries to
flow through the mic connector ground and this is what is blowing that
trace inside the radio.

So it is not the Mic-E's fault, necessarily, it is a risk one takes
whenever you allow any kind of ground loop to a mobile radio. But it is
certainly a lesson re-learned in this case, and which should be published
as a big warning in the Mic-E manual.

This is similar to why mobile radios put a fuze in the negative lead to
the battery. Same scenario. If you go to crank your car engine and for
some reason the battery lead from the battery to the car engine is loose
or open, then you put 200 AMPS of cranking current through your radio and
all the smoke drains out very quickly.

Thanks to Wes Johnson for his quick analysis...

bob

May 1998

Original source file: mic-e.9805
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9805

1. Dayton 1998 TAPR Digital Forum and Pack*Bash

```
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sat, 2 May 1998 10:54:47 -0500
To: "HF SIG  list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG  list   mailing"<aprssig@tapr.org>,
        "NETSIG  list   mailing"<netsig@tapr.org>,
        "BBS SIG  list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org,
        TAPR Regional Freq <regional_freq@tapr.org>
Message-ID: <v04003a02b170efeb4e04@[207.8.125.50]>
Rendered body type: text/plain
```

Dayton 1998 TAPR Digital Forum and PACK*BASH

Dayton Hamvention will be here later this month. Just as a reminder, the
TAPR Digital Forum is on Friday and this year starts much earlier than in
years past. In addition, the PacketBASH banquet will be held on Friday
night.

If you haven't been to Dayton before, you should think about coming this
year. The dates for this year are May 15th - 17th. Check out the web page
http://www.tapr.org/tapr/html/dayton.html for any last minute changes in
the schedule.

The schedule for the TAPR digital forum on Friday is:

10:00 - 10:05am (5 min)
        Introduction to Forum
        John Ackermann, N8UR

10:05 - 10:25am (20 min)
        TAPR Kit/Project/Organizational Update - Greg Jones , WD5IVD
        TAPR Update and discussion on current activities.

10:25 - 10:45am (20 min)
        Regulatory Issues - Dewayne Hendricks, WA8DZP
        Update on Regulatory Issues related to Digital activity.

10:45 - 11:30am (45 min)
        TAPR 900Mhz FHSS Radio Project
        Tom McDermott, N5EG / Greg Jones, WD5IVD
        Latest Information on Status and design of 900Mhz FHSS Radio Design.

11:30 - 12:15pm (45 min)
        GPS Projects - Steve Bible, N7HPR / Tom Clark, W3IWI
        TAPR has introduced several GPS related items in the last year.
        DGPS, GPS Interface boards, TAC-2, Future TOC add-on, etc

12:15 - 12:30pm (15 min)
        Break

12:30 - 1:00pm (30 min)
        Linux AX.25 - John Ackermann, N8UR
        Making AX.25 play on Linux

1:00pm - 1:45pm (60 min)
        APRS SIG and APRS Update
        Stan Horzepa, WA1LOU, APRS SIG Chair with the APRS Authors
        SIG meeting discussing current and future activities in APRS.

PACK*BASH and TAPR Banquet

Attending the 1998 Dayton Hamvention? Then don't miss out on PACK*BASH and
TAPR Banquet.

What?
        An event for the digitally-inclined ham, featuring:
                * Buffet dinner

```
                *  Speaker Doug McKinney, KC3RL
                      discussing GPS and his Bouy projects in the Pacific
                *  TAPR special interest group meetings
                *  Prize Drawing!

When?
        Friday evening, May 15, 1998
        Doors open at 7:00 pm; dinner served at 7:30 pm
        Speaker and meetings after dinner


Where?
        NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --
        South of downtown Dayton, just west of Main St. (Rt 48).
        Maps available on the TAPR web site or at the TAPR booth.
        (http://www.tapr.org/tapr/html/dayton.html)


How?
        Dinner requires advance registration and payment through TAPR.
        Tickets will be available at the TAPR booth on Friday, though
        we strongly encourage registration <before> Hamvention.  The cost
        is $20.00 per person, tax and tip included.

        All amateurs are welcome to attend, enjoy the speaker, and
        participate in the meetings, although only those purchasing a
        dinner can eat.

        To register, contact:
                PACK*BASH
                c/o TAPR
                8987-309 E. Tanque Verde Road #337
                Tucson, AZ   85749-9399

                Phone: (940) 383-0000
                Fax: (940) 566-2544
                Internet: tapr@tapr.org

                Visa/Mastercard Accepted

Who?
        PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet
        Radio, the national leader in digital communication -- and the
        Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html, or send e-mail to
tapr@tapr.org. You can request information via packet radio at
BASH@N8ACV.#DAY.OH.USA.NOAM.




------------------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
------------------------------------------------------------------------------
e-mail: tapr@tapr.org       web: <http://www.tapr.org/>
ftp:    ftp.tapr.org
phone:  940-383-0000        fax: 940-565-2544
------------------------------------------------------------------------------
```

2. Locally Monitoring GPS

```
From: glapin@juno.com (Gregory D Lapin)
Date: Wed, 6 May 1998 00:57:06 CDT
To: mic-e@tapr.org
Message-ID: <19980506.005706.3622.2.glapin@juno.com>
Rendered body type: text/plain
```

For a Mic-E with internally mounted GPS, is it possible to locally monitor the GPS position (without transmitting a packet and then receiving it in order to get the position)?

73, Greg Lapin N9GL

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

3. Manual Unclear about Auto/Manual Switch

From: glapin@juno.com (Gregory D Lapin)
Date: Wed, 6 May 1998 00:49:47 CDT
To: mic-e@tapr.org
Message-ID: <19980506.005706.3622.0.glapin@juno.com>
Rendered body type: text/plain

The instruction manual for Mic-E does not specify which direction the
Auto/Manual switch is mounted to the front panel.

The schematic suggests that when the SPST switch is closed, it is in AUTO
mode (switch on schematic is labeled AUTO).

The description of the operation of the LEDs in these modes suggests the
opposite.

I tentatively mounted the switch so that when it is OPEN, it is in AUTO
mode.
When it is CLOSED, it is in MANUAL mode.

Is this correct?

73, Greg Lapin N9GL

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

4. Power Down Mic-E Causes PTT closed on radio

From: glapin@juno.com (Gregory D Lapin)
Date: Wed, 6 May 1998 00:55:36 CDT
To: mic-e@tapr.org
Message-ID: <19980506.005706.3622.1.glapin@juno.com>
Rendered body type: text/plain

When my Mic-E loses power, it causes the radio (Alinco) to go into
Transmit (as if PTT was being pushed constantly).

Is this the expected response?

If so, can it be fixed by inserting a PNP transistor between the Mic-E
PTT output and the radio PTT input? PTT would short base to ground
causing emitter (radio PTT) to conduct to ground with a bias resistor
between emitter and base. Then, with loss of power in the Mic-E, the
transistor would still be biased off and the radio would not transmit.

73, Greg Lapin N9GL

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

5. Re: [MIC-E:1650] Power Down Mic-E Causes PTT closed on radio

From: Vic White <VicWhite@aol.com>
Date: Wed, 6 May 1998 10:02:30 EDT
To: mic-e@tapr.org
Message-ID: <5e20e12e.35506d78@aol.com>
Rendered body type: text/plain

I am experiencing a constant key down to my Yaesu whenever I turn off the
MicEncoder requiring that I remove the cable from it to the radio. What is
the fix for this problem?

Vic W5LRU

6. Re: Power Down Mic-E Causes PTT closed on radio

From: kc5jgv@juno.com (J. S Ratchford)
Date: Wed, 6 May 1998 11:49:19 -0500
To: mic-e@tapr.org
Cc: mic-e@tapr.org
Message-ID: <19980506.115824.6950.2.kc5jgv@juno.com>
Rendered body type: text/plain

There is a trace under the board that must be cut. I had that problem
with the htx-242. Also you have to solder a cap in. I don't have the info
here in front of me and can't give you the details. I'll look fer 'em!

73

J. Scott Ratchford - KC5JGV - ARES EC Searcy County, AR
F.&A.M. Calf Creek Lodge #426
email: kc5jgv@juno.com

On Wed, 6 May 1998 09:04:38 -0500 (CDT) Vic White <VicWhite@aol.com>
writes:
>I am experiencing a constant key down to my Yaesu whenever I turn off
>the
>MicEncoder requiring that I remove the cable from it to the radio.
>What is
>the fix for this problem?
>
>Vic W5LRU
>
>

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

7. Emission designators for mic-e commercial use.

From: "Randy Perkins" <ranperk@ghgcorp.com>
Date: Wed, 6 May 1998 20:20:42 -0500
To: "mic-e" <mic-e@tapr.org>
Message-ID: <01bd7956$5a905a40$0a6f22ab@randy>
Rendered body type: text/plain

Does anyone know if the mic-e could be used in a commercial vehicle tracking
system over normal voice repeater frequencies? If the business is licensed
for emission 20K0F1D and 20K0F2D?
Thanks and 73 de Randy, WB5KCM...

8. Tripmate

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Thu, 7 May 1998 09:23:26 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199805071423.JAA24945@vuse.vanderbilt.edu>
Rendered body type: text/plain

I have been using the mic-e with my Garmin 45. No problems. A friend has
loaned me a DeLorme Tripmate to see if it will work. I am not sure of the
compatibility of the Tripmate with some of the pins on the mic-e DB9
connector. I have no idea about the pins on the Tripmate. Seems not a good
idea to just plug it in.

Some time back there was some traffic here about the Tripmate. Could
someone give me info on compatibility of the two?

TNX and 73,

Gene W4IMT

9. External GPS

From: Vic White <VicWhite@aol.com>
Date: Thu, 7 May 1998 10:23:27 EDT
To: mic-e@tapr.org
Message-ID: <9f9027d5.3551c3e0@aol.com>
Rendered body type: text/plain

For some reason myself and another Ham are having difficulty with using an
External GPS unit. We have tried using P1 - no luck. Using J2 with a blank
stereo pin in P1 - no luck. We both are using Garmin GPS units - mine is
GPS12 his GPS38. He programmed his using P1 and I programmed mine with J2 to
the computer. The MicE doesn't report any coordinates in either of our units.

Using WinAPRS 2.1.7 I interfaced both GPS units via the DB9 connector being
used and it logs beautifully in the program.

We must both be overlooking something simple but having read the instructions
many, many, many times don't see what we are over looking.

Anyone have any other ideas or hints for us?

Vic-W5LRU

10. Re: [MIC-E:1655] External GPS

From: Vic White <VicWhite@aol.com>
Date: Thu, 7 May 1998 11:04:30 EDT
To: mic-e@tapr.org
Message-ID: <d61afdb1.3551cd7f@aol.com>
Rendered body type: text/plain

In a message dated 98-05-07 11:02:40 EDT, I wrote:

<< For some reason myself and another Ham are having difficulty with using an
 External GPS unit. We have tried using P1 - no luck. Using J2 with a blank
 stereo pin in P1 - no luck. We both are using Garmin GPS units - mine is
 GPS12 his GPS38. He programmed his using P1 and I programmed mine with J2 to
the computer. The MicE doesn't report any coordinates in either of our units.

 Using WinAPRS 2.1.7 I interfaced both GPS units via the DB9 connector being
 used and it logs beautifully in the program.   >>

PS:

I neglected to say that we have set the units to interface with NMEA 0183.

11. Re: [MIC-E:1655] External GPS

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 07 May 1998 14:14:20 -0500
To: mic-e@tapr.org
Message-ID: <3552080C.5AFA2579@amsat.org>
Rendered body type: text/plain

Tell me exactly how you hooked the GPS units to the Mic-E.

Vic White wrote:

> For some reason myself and another Ham are having difficulty with using an
> External GPS unit. We have tried using P1 - no luck. Using J2 with a blank
> stereo pin in P1 - no luck. We both are using Garmin GPS units - mine is
> GPS12 his GPS38. He programmed his using P1 and I programmed mine with J2 to
> the computer. The MicE doesn't report any coordinates in either of our units.
>
> Using WinAPRS 2.1.7 I interfaced both GPS units via the DB9 connector being
> used and it logs beautifully in the program.
>
> We must both be overlooking something simple but having read the instructions
> many, many, many times don't see what we are over looking.
>
> Anyone have any other ideas or hints for us?
>
> Vic-W5LRU

--
Ron Parsons
W5RKN

12. Re: [MIC-E:1657] Re: External GPS

From: Vic White <VicWhite@aol.com>
Date: Thu, 7 May 1998 15:37:18 EDT
To: mic-e@tapr.org
Message-ID: <a5540295.35520d6f@aol.com>
Rendered body type: text/plain

In a message dated 98-05-07 15:31:26 EDT, you write:

<< Tell me exactly how you hooked the GPS units to the Mic-E. >>

My friend with the GPS 38 tried both the DB9 and Stereo jack to no avail. He
had a blank plug in P 1 when using the DB 9.

On mine I have only tried using the DB 9 with a plug in P 1.

We both set the "Interface" of the GPS to NMEA/NMEA (in/out) using NMEA 0183
Version 1.5 and 2.0 at 4800 and 9600 baud. Using the same cable from either
GPS unit works with WinAPRS and reports the data RT to the program and
displays ok.

The DB9 connector is factory built by GARMIN for the units.

Thanks for any light you can reveal on this.

Vic

13. Re: [MIC-E:1658] Re: External GPS

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 07 May 1998 16:15:31 -0500
To: mic-e@tapr.org
Message-ID: <35522473.9E1DCB66@amsat.org>
Rendered body type: text/plain

You didn't say which pins on what went to what. But you said that the DE-9 on the
GPS was "factory". I'd guess that you need a null-modem connector between the GPS
and the Mic-E. The Mic-E (and I'd guess the GPS) connectors are both configured
to talk to a terminal (computer). Thus the need for a null modem to swap the data
in and data out.

Vic White wrote:

> In a message dated 98-05-07 15:31:26 EDT, you write:
>
> << Tell me exactly how you hooked the GPS units to the Mic-E. >>
>
> My friend with the GPS 38 tried both the DB9 and Stereo jack to no avail. He
> had a blank plug in P 1 when using the DB 9.
>
> On mine I have only tried using the DB 9 with a plug in P 1.
>
> We both set the "Interface" of the GPS to NMEA/NMEA (in/out) using NMEA 0183
> Version 1.5 and 2.0 at 4800 and 9600 baud. Using the same cable from either
> GPS unit works with WinAPRS and reports the data RT to the program and
> displays ok.
>
> The DB9 connector is factory built by GARMIN for the units.
>
> Thanks for any light you can reveal on this.
>
> Vic

--
Ron Parsons
W5RKN

14. Re: [MIC-E:1659] Re: External GPS

From: Vic White <VicWhite@aol.com>
Date: Thu, 7 May 1998 19:25:58 EDT
To: mic-e@tapr.org
Message-ID: <56b7473e.35524307@aol.com>
Rendered body type: text/plain

In a message dated 98-05-07 17:38:02 EDT, you write:

<< The Mic-E (and I'd guess the GPS) connectors are both configured to talk to
a terminal (computer). >> Yes and they do work ok. The MicE is suppose to
work with GPS units with NMEA 0183 format using the DB-9.

Thanks for your assistance.

Vic

15. Re: [MIC-E:1654] Tripmate

From: Bill Kearns <billk@inland.net>
Date: Fri, 08 May 1998 04:09:12 +0100
To: mic-e@tapr.org

Message-ID: <3.0.32.19980508040910.006d5a04@inland.net>
Rendered body type: text/plain

At 09:27 5/7/98 -0500, you wrote:
>I have been using the mic-e with my Garmin 45. No problems. A friend has
>loaned me a DeLorme Tripmate to see if it will work. I am not sure of the
>compatibility of the Tripmate with some of the pins on the mic-e DB9
>connector. I have no idea about the pins on the Tripmate. Seems not a good
>idea to just plug it in.
>
>Some time back there was some traffic here about the Tripmate. Could
>someone give me info on compatibility of the two?
>
>TNX and 73,
>
>Gene W4IMT
>
>
>
Gene,
        I also have a tripmate and a mic-e. i have successfully interfaced the
tripmate to several
different tnc's with good results. i bought a mic-e at dayton last year
and just havent gotten around
to doing it yet. but i do have the following pinout info. i plan on doing
it soon. (i hope before dayton!)
>>>>>here it is: (good luck!!)

Tripmate to the Mic-e

1. Jumper pins 1 & 2 in the tripmate battery plug socket. use a jumper
   from an old motherboard take the bottom cover off the tripmate and remove
   the batteries if any, then turn the tripmate over (writing side up) the
   battery plug socket will be in the lower left-hand corner. pins are
   vertically placed with pin #1 at the top.

        pin#1--
                >>jumper together
        pin#2--

        pin#3   >>leave alone

2. Make up a "pig-tail--powercord--tripmate to mic-e interface assembly" as
follows;
   use a DB9pin male connector with metal hood on one end, with 2 shielded
cables
   coming out. on the end of one cable have a 3-conducter (stereo) plug.
the other cable
   will connect to a 5volt dc source. (use a 7805 with any kind of
connector setup (box)
   that suits your needs) pay attention to grounding and ground loops.

3.   a. jumper pins 2 & 3 together in the db-9 connector- (i used a cutoff
resister lead)
        b. jumper pins 4 & 9 together in the db-9 connector- (use another cutoff
resister lead)
        c. the pins 2 & 3 "jumpered combo" connect to the "ring" of the stereo plug
        d. pin 5 (gnd) connects to the "gnd" of the stereo plug
        e. the pins 4 & 9 "jumpered combo" connects to +5volts DC

ps. i hope i didnt leave anything out here. let me know when you get it up
and running!

16. Re: [MIC-E:1661] Re: Tripmate

From: Eugene Pentecost <pentecst@vuse.vanderbilt.edu>
Date: Fri, 8 May 1998 06:20:09 -0500 (CDT)
To: mic-e@tapr.org
Message-ID: <199805081120.GAA20891@vuse.vanderbilt.edu>
Rendered body type: text/plain

At 10:15 PM 5/7/98 -0500, you wrote:

>Gene,
>   I also have a tripmate and a mic-e. i have successfully interfaced the
>tripmate to several
>different tnc's with good results. i bought a mic-e at dayton last year
>and just havent gotten around
>to doing it yet. but i do have the following pinout info. i plan on doing
>it soon. (i hope before dayton!)

>>>>>>here it is: (good luck!!)
>
>Tripmate to the Mic-e
>
>1. Jumper pins 1 & 2 in the tripmate battery plug socket. use a jumper
>   from an old motherboard take the bottom cover off the tripmate and remove
>   the batteries if any, then turn the tripmate over (writing side up) the
>   battery plug socket will be in the lower left-hand corner. pins are
>   vertically placed with pin #1 at the top.
>
>   pin#1--
>   >>jumper together
>   pin#2--
>
>   pin#3   >>leave alone
>
>2. Make up a "pig-tail--powercord--tripmate to mic-e interface assembly" as
>follows;
>   use a DB9pin male connector with metal hood on one end, with 2 shielded
>cables
>   coming out. on the end of one cable have a 3-conducter (stereo) plug.
>the other cable
>   will connect to a 5volt dc source. (use a 7805 with any kind of
>connector setup (box)
>   that suits your needs) pay attention to grounding and ground loops.
>
>3.   a. jumper pins 2 & 3 together in the db-9 connector- (i used a cutoff
>resister lead)
>   b. jumper pins 4 & 9 together in the db-9 connector- (use another cutoff
>resister lead)
>   c. the pins 2 & 3 "jumpered combo" connect to the "ring" of the stereo plug
>   d. pin 5 (gnd) connects to the "gnd" of the stereo plug
>   e. the pins 4 & 9 "jumpered combo" connects to +5volts DC
>
>
>ps. i hope i didnt leave anything out here. let me know when you get it up
>and running!
>
>
>

Bill-

Thanks for the help. I think I can do it now,

73

Gene

17. Re: [MIC-E:1660] Re: External GPS

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 08 May 1998 06:47:10 -0500
To: mic-e@tapr.org
Message-ID: <3552F0BE.413A78D4@amsat.org>
Rendered body type: text/plain

That is true, IF AND ONLY IF you wire the units together correctly.

Vic White wrote:

> In a message dated 98-05-07 17:38:02 EDT, you write:
>
> << The Mic-E (and I'd guess the GPS) connectors are both configured to talk to
> a terminal (computer). >> Yes and they do work ok. The MicE is suppose to
> work with GPS units with NMEA 0183 format using the DB-9.
>
> Thanks for your assistance.
>
> Vic

--
Ron Parsons
W5RKN

18. Re: [MIC-E:1661] Re: Tripmate

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Fri, 8 May 98 11:12:10 EDT
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.894640330.alan@watsol>
Rendered body type: text/plain

I just re-posted to the APRS sig this week the existence of the
Tripmate FAQ which has been around since they first came out:

  ftp://sundae.triumf.ca/pub/peter/tripmate.faq

See also,

  http://www.users.cloud9.net/~alan/ham/aprs/

Which links to the above page as well as an article I wrote and a schematic
showing how I hooked up my *beta* Mic-E and Tripmate. The beta Mic-E's
connectors are different from the production model, so don't just copy what
I did!

73 de Alan N2YGK

19. Transmit noise

From: Warren BOUDRIE <web@frontiernet.net>
Date: Tue, 12 May 1998 08:41:28 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980512084128.007bc660@pop3.frontiernet.net>
Rendered body type: text/plain

I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The Mic-e is
mic powered.

If I hook up the Garmin through J2 (9 pin connector) and power the Garmin
through the vehicle battery (cigar lighter plug), I send terrible sounding
audio when using voice. If I just send the carrier, I think I am hearing
the signals from the GPS to the mic-e.

Now, if I forget about using the car battery and J2 and just use the
batteries in the Garmin and hook it up to the GPS connector (P1) on the
back of the mic-e the audio output sounds normal.

Since battery life in the Garmin is only about 4 hours, I'd really like to
power it from the car battery. Any suggestions on how to do that and
eliminate the noisy audio output would be appreciated.

73, Warren AA2LQ

20. Re: [MIC-E:1665] MIC-E digest 323

From: np3c@juno.com (Stephen J Werner)
Date: Tue, 12 May 1998 19:01:39 EDT
To: mic-e@tapr.org
Message-ID: <19980512.190141.6854.1.NP3C@juno.com>
Rendered body type: text/plain

Good luck. Sounds like a ground loop. Same problem I have with my FT-2400
and Tripmate. How can we avoid the noise? 73 Steve

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

21. Re: MIC-E repeater listiing

From: "Warren" <kd4zdd@amsat.org>
Date: Fri, 15 May 1998 12:04:09 -0400
To: mic-e@tapr.org
Message-ID: <199805151606.MAA24345@mx.magicnet.net>
Rendered body type: text/plain

On Sun, 5 Apr 1998, Warren BOUDRIE wrote:

> Does anyone know if there is a listing of voice repeaters in the U.S.
> that support the Mic-e APRS application? Is there an effort to develop
> that list if it does not exist?

I have an addition to it if it does exist (Bob Bruninga?)
Frequency: 442.250 out/ 447.250 in   ctcss 103.5   (Voice Repeater)
outputs to local APRS Net Freq: 144.39
Location: Orlando, FL

Calls: KD4ZDD voice repeater, KD4ZDD-10 70cm input, AE4KO-10 2m input
Ant Height: 400 ft.
70cm Aliases: RELAY,WIDE

Note: The 2m input will function as a Digi but only responds to the Alias of AE4KO-10.   Packets on the 70cm input are muted in the voice repeater audio. However, if you want to leave your Mic-E in "automatic" mode, the repeater trustee requests you disable your ctcss tone encode to reduce kerchunks!

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

22. Re: [MIC-E:1648] Locally Monitoring GPS

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 15 May 1998 18:57:57 -0500
To: mic-e@tapr.org
Message-ID: <355CD685.73CC4322@amsat.org>
Rendered body type: text/plain

I depends how you connect the GPS internally. If you connect the GPS to P1 (ring), the the GPS data will also be on J3-2. In other words, don't use the JP3 header.

Gregory D Lapin wrote:

> For a Mic-E with internally mounted GPS, is it possible to locally
> monitor the GPS position (without transmitting a packet and then
> receiving it in order to get the position)?
>
> 73, Greg Lapin N9GL
>
> _____
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at http://www.juno.com
> Or call Juno at (800) 654-JUNO [654-5866]

--
Ron Parsons
W5RKN

23. Transmit Noise

From: Warren BOUDRIE <web@frontiernet.net>
Date: Tue, 19 May 1998 15:25:17 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980519152517.007c25d0@pop3.frontiernet.net>
Rendered body type: text/plain

****** SECOND POSTING *****

I posted the note below a little over a week ago. I'm re posting it because I did not get any replies. That's understandable since many of you probably went to the Dayton Hamfest. If anyone has any suggestions or comments they sure would be appreciated.

    Warren, AA2LQ

I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The Mic-e is mic powered.

If I hook up the Garmin through J2 (9 pin connector) and power the Garmin through the vehicle battery (cigar lighter plug), I send terrible sounding audio when using voice. If I just send the carrier, I think I am hearing the signals from the GPS to the mic-e.

Now, if I forget about using the car battery and J2 and just use the batteries in the Garmin and hook it up to the GPS connector (P1) on the back of the mic-e the audio output sounds normal.

Since battery life in the Garmin is only about 4 hours, I'd really like to power it from the car battery. Any suggestions on how to do that and eliminate the noisy audio output would be appreciated.

73, Warren AA2LQ

24. RE: [MIC-E:1669] MIC-E digest 327

From: GStory@icomply.com
Date: Tue, 19 May 1998 15:06:13 -0500
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B969@lew_prods1.icomply.com>
Rendered body type: text/plain

Warren, I ahve the same problem with my mic-e. I am using an Alinco DR130. Some sort of ground loop has setup. I have been to busy to trouble shoot it yet. I have been menaing to ask Bob if I can disconnect the ground at the cig liter end and let ground go via the radio ground instead of via the cig liter ground. My previous boss, a EE and an EMI consultant, suggested trying both grounds at the mic-e together instead of having them seperate.
Guy Story, KC5GOI
gstory@icomply.com

> -----Original Message-----
> From: mic-e@tapr.org [SMTP:mic-e@tapr.org]
> Sent: Tuesday, May 19, 1998 2:53 PM
> To: mic-e@tapr.org
> Subject: [MIC-E:1669] MIC-E digest 327
>
>   MIC-E Digest 327
>
> Topics covered in this issue include:
>
>   1) Transmit Noise
>   by Warren BOUDRIE <web@frontiernet.net>
>
> --
>
> Date: Tue, 19 May 1998 15:25:17 -0400
> From: Warren BOUDRIE <web@frontiernet.net>
> To: mic-e@tapr.org
> Subject: Transmit Noise
> Message-ID: <3.0.5.32.19980519152517.007c25d0@pop3.frontiernet.net>
>
>   ****** SECOND POSTING *****
>
> I posted the note below a little over a week ago. I'm re posting it
> because I did not get any replies. That's understandable since many
> of you
> probably went to the Dayton Hamfest. If anyone has any suggestions or
> comments they sure would be appreciated.
>
>   Warren, AA2LQ
> ------------------------------------
>
> I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The
> Mic-e is
> mic powered.
>
> If I hook up the Garmin through J2 (9 pin connector) and power the
> Garmin
> through the vehicle battery (cigar lighter plug), I send terrible
> sounding
> audio when using voice. If I just send the carrier, I think I am
> hearing
> the signals from the GPS to the mic-e.
>
> Now, if I forget about using the car battery and J2 and just use the
> batteries in the Garmin and hook it up to the GPS connector (P1) on
> the
> back of the mic-e the audio output sounds normal.
>
> Since battery life in the Garmin is only about 4 hours, I'd really
> like to
> power it from the car battery. Any suggestions on how to do that and
> eliminate the noisy audio output would be appreciated.
>
> 73, Warren AA2LQ
>
>
> ------------------------------
>
> End of MIC-E Digest 327

> **********

25. Re: [MIC-E:1669] Transmit Noise

From: Tom_Kinahan@ne.3com.com
Date: Tue, 19 May 1998 16:32:29 -0400
To: mic-e@tapr.org
Cc: web@frontiernet.net
Message-ID: <85256609.007030CE.00@usboxmta.ne.3com.com>
Rendered body type: text/plain

Warren,

 I've got the same problem. I don't think it's easy to solve. You might try putting ferrites on both sets of (radio/gps) power leads, but I don't think it's likely to work. The only thing I can do to make it work is to use different power sources. I suspect it's a groud loop, and you just got to break the ground loop between the radio/mic-e/GPS.

 I've installed a GPS-20 inside my MIC-E and when I power the MIC-E/GPS off the car battery (common ground) I get the same problem. If I power the Mic-E/GPS from a different source (different ground) like a small external 12v battery, the problem goes away for me too.

 Some radios seem to have this problem (like my new TM-V7A) and others don't (like my old IC-3200A).

 -Tom Kinahan N1CPE

Warren BOUDRIE <web@frontiernet.net> on 05/19/98 03:48:36 PM

Please respond to mic-e@tapr.org

To: mic-e@tapr.org
cc: (bcc: Tom Kinahan/US/3Com)
Subject: [MIC-E:1669] Transmit Noise

                          ****** SECOND POSTING *****
I posted the note below a little over a week ago. I'm re posting it because I did not get any replies. That's understandable since many of you probably went to the Dayton Hamfest. If anyone has any suggestions or comments they sure would be appreciated.
    Warren, AA2LQ

I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The Mic-e is mic powered.
If I hook up the Garmin through J2 (9 pin connector) and power the Garmin through the vehicle battery (cigar lighter plug), I send terrible sounding audio when using voice. If I just send the carrier, I think I am hearing the signals from the GPS to the mic-e.
Now, if I forget about using the car battery and J2 and just use the batteries in the Garmin and hook it up to the GPS connector (P1) on the back of the mic-e the audio output sounds normal.
Since battery life in the Garmin is only about 4 hours, I'd really like to power it from the car battery. Any suggestions on how to do that and eliminate the noisy audio output would be appreciated.
73, Warren AA2LQ

26. Re: [MIC-E:1669] Transmit Noise

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Tue, 19 May 1998 16:58:51 -0500
To: mic-e@tapr.org
Message-ID: <3562009B.A329D044@amsat.org>
Rendered body type: text/plain

Does the problem occur both when the engine is running and when it is not? If only when the engine is running, I solved a similiar problem with a hash filter AND a 7812 regulator following the filter.

Warren BOUDRIE wrote:

>   ****** SECOND POSTING *****
>

> I posted the note below a little over a week ago. I'm re posting it
> because I did not get any replies. That's understandable since many of you
> probably went to the Dayton Hamfest. If anyone has any suggestions or
> comments they sure would be appreciated.
>
>   Warren, AA2LQ
> ----------------------------------
>
> I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The Mic-e is
> mic powered.
>
> If I hook up the Garmin through J2 (9 pin connector) and power the Garmin
> through the vehicle battery (cigar lighter plug), I send terrible sounding
> audio when using voice. If I just send the carrier, I think I am hearing
> the signals from the GPS to the mic-e.
>
> Now, if I forget about using the car battery and J2 and just use the
> batteries in the Garmin and hook it up to the GPS connector (P1) on the
> back of the mic-e the audio output sounds normal.
>
> Since battery life in the Garmin is only about 4 hours, I'd really like to
> power it from the car battery. Any suggestions on how to do that and
> eliminate the noisy audio output would be appreciated.
>
> 73, Warren AA2LQ

--
Ron Parsons
W5RKN

27. Re: [MIC-E:1672] Re: Transmit Noise

From: Warren BOUDRIE <web@frontiernet.net>
Date: Wed, 20 May 1998 07:13:54 -0400
To: mic-e@tapr.org, mic-e@tapr.org
Message-ID: <3.0.5.32.19980520071354.007ce100@pop3.frontiernet.net>
Rendered body type: text/plain

The problem occurs even when the engine is not running. Several other
responses indicated that others have this same problem. The following
comment came from KC5GOI.

".......disconnect the ground at the cig liter end and let ground go via the
radio ground instead of via the cig liter ground. My previous boss, a
EE and an EMI consultant, suggested trying both grounds at the mic-e
together instead of having them separate."

KC5GOI had not tried this yet and I was wondering if anyone else out there
had done so or if anyone has any comments on that approach ????

73, Warren AA2LQ

>
At 05:01 PM 5/19/98 -0500, Ronald G. Parsons wrote:
>Does the problem occur both when the engine is running and when it is not? If
>only when the engine is running, I solved a similiar problem with a hash
filter
>AND a 7812 regulator following the filter.
>
>Ron Parsons
>W5RKN

>
>Warren BOUDRIE wrote:
>
>>   ****** SECOND POSTING *****
>>
>> I posted the note below a little over a week ago. I'm re posting it
>> because I did not get any replies. That's understandable since many of you
>> probably went to the Dayton Hamfest. If anyone has any suggestions or
>> comments they sure would be appreciated.
>>
>>   Warren, AA2LQ
>> ----------------------------------
>>
>> I'm using my mic-e with a Yaesu FT2400 and a Garmin GPS III. The Mic-e is
>> mic powered.
>>

>> If I hook up the Garmin through J2 (9 pin connector) and power the Garmin
>> through the vehicle battery (cigar lighter plug), I send terrible sounding
>> audio when using voice. If I just send the carrier, I think I am hearing
>> the signals from the GPS to the mic-e.
>>
>> Now, if I forget about using the car battery and J2 and just use the
>> batteries in the Garmin and hook it up to the GPS connector (P1) on the
>> back of the mic-e the audio output sounds normal.
>>
>> Since battery life in the Garmin is only about 4 hours, I'd really like to
>> power it from the car battery. Any suggestions on how to do that and
>> eliminate the noisy audio output would be appreciated.
>>
>> 73, Warren AA2LQ
>
>
>
>--
>
>
>
>

28. Ground loop

From: GStory@icomply.com
Date: Wed, 20 May 1998 15:10:56 -0500
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B975@lew_prods1.icomply.com>
Rendered body type: text/plain

Hello everyone, Ron you confirmed what I have been planning to do. I
have a small dc regulator circuit using a 7812 that I have planned on
putting a electrical connector for the mic-e on. I cant speak for
Warren but I have the noise either way engine running or not. If you
listen very carefully with the volume on the radio all the way down you
can hear it too.
Guy Story, KC5GOI
gstory@icomply.com
kc5goi@infospeedway.net

29. Re: [MIC-E:1674] Ground loop

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 May 1998 16:40:56 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980520163952.20750J-100000@arctic>
Rendered body type: text/plain

On Wed, 20 May 1998 GStory@icomply.com wrote:

> Hello everyone, Ron you confirmed what I have been planning to do. I
> have a small dc regulator circuit using a 7812 that I have planned on
> putting a electrical connector for the mic-e on.

One possibility is to use a 600 ohm 1:1 transformer to try to isolate any
ground loops from the Mic circuit.

30. GPS20

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Fri, 22 May 1998 19:02:45 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SV4.3.95.980522185439.6299A-100000@outland.dtcc.edu>
Rendered body type: text/plain

I have finally had a chance to work on getting my mic-e's functioning. I
began by installing my remaining GPS20 inside the box. I tested the unit
on the bench with bench supply and got a reasonable lock time. I then
proceeded to test it in my 1997 Voyager. Took over an hhour to lock. I
turned power off and it did not lock at all! Waited over 4 hours. Next day
returned to workshop, hooked it up to bench setup/supply and it locked in
under 10 minutes. Outside in the van no lock. Played with it for several
days going through these same problems.

Last night decided to bring GPS20 on the bench. Hooked it up to +5 volt
supply and pin 4 to computer. No sentences. Checked current - drawing 60
mils or so. Have I blown it? Ideas anyone?

****
Dr. Sam Guccione   Delaware Technical & Community College

```
Chair Engineering       Terry Campus
Technologies/Physics    1832 North duPont Highway
302-741-2802            Dover, DE  19901
ARS K3BY                302-741-2837 Fax
*****************************************************************
         Delaware Rocket Launch Technical Home Page
           http://www.dtel.terry.dtcc.edu/~rocket
*****************************************************************
```

31. Re: [MIC-E:1676] GPS20

From: glapin@juno.com (Gregory D Lapin)
Date: Fri, 22 May 1998 23:13:52 CDT
To: mic-e@tapr.org
Message-ID: <19980522.232137.5903.0.glapin@juno.com>
Rendered body type: text/plain

I have a similar response with my GPS-25. With no signal it seems to
lock up quickly but the position packets are invalid.

It took longer to lock up when there was an antenna attached, but it was
a true lock and the position packets were accurate.

Did you have an antenna with a good view of the sky while you were
testing on the workbench?

Greg N9GL

On Fri, 22 May 1998 18:08:08 -0500 (CDT) Dr Samuel Guccione
<sguccion@outland.dtcc.edu> writes:
>I have finally had a chance to work on getting my mic-e's functioning.
>I
>began by installing my remaining GPS20 inside the box. I tested the
>unit
>on the bench with bench supply and got a reasonable lock time. I then
>proceeded to test it in my 1997 Voyager. Took over an hhour to lock. I
>turned power off and it did not lock at all! Waited over 4 hours. Next
>day
>returned to workshop, hooked it up to bench setup/supply and it locked
>in
>under 10 minutes. Outside in the van no lock. Played with it for
>several
>days going through these same problems.
>
>Last night decided to bring GPS20 on the bench. Hooked it up to +5
>volt
>supply and pin 4 to computer. No sentences. Checked current - drawing
>60
>mils or so. Have I blown it? Ideas anyone?
>
>***
>Dr. Sam Guccione   Delaware Technical & Community College
>Chair Engineering   Terry Campus
>Technologies/Physics   1832 North duPont Highway
>302-741-2802   Dover, DE 19901
>ARS K3BY   302-741-2837 Fax
>***
>   Delaware Rocket Launch Technical Home Page
>   http://www.dtel.terry.dtcc.edu/~rocket
>***
>
>

_____
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Or call Juno at (800) 654-JUNO [654-5866]

32. 1998 ARRL and TAPR Digital Communications Conference

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 31 May 1998 14:10:14 -0500
To: "HF SIG list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG list   mailing"<aprssig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org,
        TAPR Regional Freq <regional_freq@tapr.org>

Message-ID: <v04003a01b1975b5f40bd@[207.8.125.50]>
Rendered body type: text/plain

1998 ARRL and TAPR Digital Communications Conference
September 25-27, 1998
Chicago, Illinois (minutes from O'Hare Airport)

Web: http://www.tapr.org/dcc

It's that time again! Mark your calendar and think about what to publish for the upcoming 17th Annual ARRL and TAPR Digital Communications Conference. This is the third year in which the ARRL Digital Communications Conference and TAPR Annual General Meeting are joined into one conference!

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies, who meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital expert, but for digitally-oriented amateurs at all levels of expertise.

The 1998 ARRL and TAPR Digital Communications Conference will be held September 25-27, 1998, in Chicago, Illinois. This year's conference location is the Holiday Inn Rolling Meadows, just minutes from O'Hare Airport.

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. This includes APRS operators, digital networks, software writers, modem designers, and digital satellite enthusiasts. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to become active on a national level. Now, more than ever, amateur radio needs this great meeting of the minds because it is important that we demonstrate a continued need for the frequency allocations we have by pushing forward and documenting our achievements. The ARRL and TAPR Digital Communications Conference is one of the few ways to record our accomplishments and challenge each other to do more.

A Conference for the Beginner, Too

The conference is not just for the digital expert. This year's conference again provides multiple session tracks for beginning, intermediate, and advanced presentations on selected topics in digital communications. Topics will include APRS, satellite communications, TCP/IP, digital radio, Spread Spectrum, and many others. Come to the conference and hear these topics presented by the experts! Don't miss this opportunity to listen and talk to others in these areas.

Symposia and Seminars

In addition to the presentation of papers on Saturday, three symposia/seminars will be held. These sessions are provided to allow those with additional time and interest to make the most of the Digital Communications Conference. For those who may have interest in just one symposium or seminar, registration for the conference is not required to attend these activities. This allows maximum flexibility for those who may want to participate during the Digital Communications Conference, but do not have an entire weekend to devote to the event.

The Second APRS National Symposium will be held on Friday and will be moderated by Steve Dimse, K4HG (the developer of javAPRS). It will likely include many APRS software authors, such as Bob Bruninga, WB4APR (the father of APRS), Keith Sproul, WU2Z, Mark Sproul, KB2ICI (the developers of MacAPRS and WinAPRS), Brent Hildebrand, KH2Z (the developer of APRSPLUS), and other nationally-known APRS leaders. Join this group for the afternoon and evening for in-depth discussions and presentations on the current and future status of APRS. This is a unique opportunity to gain insight into this fast-growing digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning System).

Starting late Friday afternoon, a half-day seminar titled "Infrastructureless Technologies in Amateur Radio," presented by Don Lemke, WB9MJN, will cover the pros and cons of DDMA (directivity division multiple access, a proposed infrastructureless technigue) versus hubbed (cellular style) and other infrastructure dependant techniques, the basic problem of megabaud rate communications into the ham QTH, and some techniques for channel-area acquisition including full duplex/asynchronous versus simplex/synchronous radio/acquisition concepts. This seminar will start late enough on Friday afternoon to allow those flying that day to attend the seminar.

The Sunday morning seminar will be a combination of two different talks that will make one excellent seminar. The first presentation, by Lyle Johnson, WA7GXD, will focus on the upcoming RUDAK digital communications system scheduled to fly on the AMSAT Phase 3D satellite in the near future. Lyle will discuss features, systems design, integration, and experiments. The goal of the presentation is to zero in on the communications capabilities of RUDAK, the performance to be expected from the 153k6 PSK system, the limitations and capacities of the DSP modems, user requirements for receiving RUDAK, requirements for transmitting to RUDAK, and how amateurs can work to make ground operations a reality once the satellite is in operation. Information on how to submit a proposal for experimental time on RUDAK will be presented. The second presentation will be by Tim Shepard, KD1KY, regarding "Packet Radio Networks with Millions or Billions of Stations." This talk will present concepts and materials that make you think about different possibilities of networking in the future. Both Lyle's and Tim's presentations focus on different aspects of future digital communications possibilities.

Third Annual ARRL and TAPR DCC Student Papers Award

ARRL and TAPR especially welcome papers from full-time students to compete for the third annual student papers award. Two $500 travel awards may be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see the guidelines for more information). Papers co-authored by educators or telecommunications professionals are also eligible for this award as long as a student is the first author. The deadline for receipt of finished student paper manuscript is June 20, 1998. Please note that this deadline is different from the general conference paper submission date. For full details and paper guidelines contact TAPR or browse to http://www.tapr.org/dcc.

Call for Conference Proceeding Papers

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the conference is not required for publication. The primary purpose of the conference is to communicate ideas and techniques regarding digital communications. Papers written in an informal style are welcome, as well as those written to academic standards. If you know of someone who is doing great things with digital communications, be sure to tell them about this! Papers are due by August 15, 1998, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111, or via e-mail to lweinberg@arrl.org. The paper submission guidelines are available on-line (http://www.tapr.org/dcc).

Local/International Co-Host

The 1998 ARRL and TAPR Digital Communications Conference will be co-hosted by Chicago Amateur Packet Radio Association (CAPRA). CAPRA is one of the oldest packet radio groups in the US. It focuses on education about amateur packet radio, coordination of joint efforts of hams interested in packet radio, and technical and equipment support for a sound packet network in the Chicago area. They have had high-speed packet networks operational since the mid-1980s. Visit the CAPRA Web site at http://www.imaxx.net/capra for more information.

PRUG (Packet Radio User Group of Japan) will be the first International co-host of the ARRL and TAPR Digital Communications Conference. The conference is proud to welcome PRUG as part of the conference. PRUG will be hosting an informal social Friday evening after the seminar and

symposium are completed. Visit http://www.prug.or.jp for more information about the organization.

What can you expect during the 1998 ARRL and TAPR Digital Communications Conference?

* A full day of papers, breakout sessions, and selected topics on Saturday for the beginner to advanced amateur digital enthusiast.

* Three seminars/symposia
  Friday (1 PM)
    - Second Annual APRS National Symposium,
      moderated by Steve Dimse, K4HG

  Friday (3 PM)
    - Infrastructure Technologies in Amateur Radio
      conducted by Don Lemke, WB9MJN

  Sunday (8:30 AM)
    - RUDAK Future Operations and Experimentations
      by Lyle Johnson, WA7GXD
    - Packet Radio Networks with Millions or Billions of Stations
      by Tim Shepard, KD1KY

* Third Annual Student Paper Awards.

* TAPR Membership Meeting

* A banquet with special guest speaker Steve Roberts, N4RVE, of Nomadic Research Labs. Creator of the Winnebiko and Behemoth high-tech recumbent bicycles. His current project is focused on Microship technology (http://www.microship.com/).

* SIGs (Special Interest Groups) get-togethers on Saturday, following the banquet

* Informal get-togethers throughout the weekend

* A facility that is perfect for this type of conference

* Informal engineering discussions/demonstration areas

* Motorola Museum located in the area.

* An event at which the most important new developments in amateur digital communications are announced

* Digital 'movers and shakers' from all over the world in attendance

---

Conclusion

If you have attended a Digital Communications Conference in the past, remember how much fun it was discussing the latest developments into the wee hours! If you have never been to a Digital Communications Conference, then make your plans now to attend and find out how much fun they can be.

There are few activities where your participation can be so much fun and so important! You will be able to get together with colleagues from all over the world and bring each other up to date on your latest work. Experience all this and more for an unforgettable weekend of ham radio and digital communications. Make your travel and lodging arrangements now. We hope to see you at the ARRL and TAPR Digital Communications Conference, September 25-27!

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road #337, Tucson, AZ 85749-9399, phone 940-383-0000, fax 940-566-2544, e-mail tapr@tapr.org, browse www.tapr.org/dcc.

Sincerely,

   Steve Ford, WB8IMY, ARRL Conference Co-Chair
   Greg Jones, WD5IVD, TAPR Conference Co-Chair
   Steve Stroh, N8GNJ, Conference Manager
   Mark J. Thompson, WB9QZB, Local Host Liaison

Carl Bergstedt, K9VXW, Local Host Liaison

Note: If you need conference handouts or flyers for ham club meetings, contact TAPR to get what you need!

Hotel Information

Conference presentations, meetings, and seminars will be held at the Holiday Inn Rolling Meadows. Special DCC rooms rates are $85 per night. When making reservations with the hotel, be sure to indicate you are attending the ARRL and TAPR DCC in order to get the discount. It is highly recommended that you book your room prior to arriving. A block of 75 rooms is reserved until August 31, 1998. After the 75 rooms are booked, rooms will only be available in nearby hotels, so be sure to book your rooms early! The hotel provides transportation to and from O'Hare Airport. Please contact the hotel to arrange specific transportation needs.

Holiday Inn Rolling Meadows (conference hotel)
3405 Algonquin Rd
Rolling Meadows, IL 60008
Phone 847-259-5000, fax 847-259-0597

Registration

Contact the TAPR office by phone, fax, or e-mail (numbers and addresses are above) to register or for additional meeting information. MasterCard and VISA are accepted.

- Preregistration (before Sept 1): $42.00 *

- Late registration or at door: $47.00 *

* - Conference registration includes Conference Proceedings, Saturday sessions/meetings, and lunch.

- Saturday Evening Dinner (limited space): $20.00 **

** - Includes dinner, speaker, prize drawing

Seminar/symposia

Note: You do not have to be registered for the conference to attend one or more of the seminars/symposia.

- Friday, 1-8 PM, Second Annual APRS National Symposium (full day)

Registration: $25***

- Friday 3-7 PM, Infrastructure Technologies in Amateur Radio, conducted by Don Lemke, WB9MJN

Registration: $15***

Sunday 8:30-11 AM and 11:30 AM-2 PM, RUDAK Future Operations and Experimentations by Lyle Johnson, WA7GXD, and Packet Radio Networks with Millions or Billions of Stations by Tim Shepard, KD1KY

Registration $20***

*** Cost of seminar or symposium includes the cost of handout materials.

Contact TAPR to register for the DCC:

Tucson Amateur Packet Radio
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399.
phone 940-383-0000, fax 940-566-2544
e-mail tapr@tapr.org, browse http://www.tapr.org

June 1998

Original source file: mic-e.9806
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9806

1. Dorothy Update

```
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 8 Jun 1998 10:37:20 -0500
To: "HF SIG  list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG  list   mailing"<aprssig@tapr.org>,
        "NETSIG  list   mailing"<netsig@tapr.org>,
        "BBS SIG  list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org,
        TAPR Regional Freq <regional_freq@tapr.org>
Message-ID: <v04003a0cb1a1b453317a@[207.43.172.66]>
Rendered body type: text/plain
```

For those who want to know.

Dorothy was released from the hospital last Friday afternoon and has been resting at the house (TAPR Office ;-) since then. The surgery went very well and there appears to be no complications, except that she doesn't like the really long scar on her belly.

We (Bill Jones and I) have told Dorothy she cannot step one foot into the TAPR office until next week sometime. Thus, expect kits and orders to start getting out the door in another 7-10 days. There is a bit of a pile being generated by this down time, so it will probably be a week or so after we open back up that we get caught up on everything.

Dorothy wants to thank everyone that thought of her during this ordeal and she looks forward to getting back into the swing of things.

Cheers - Greg Jones, WD5IVD

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

Real World, The n.:
        5. Anywhere outside a university. "Poor fellow, he's left UT Austin and gone into the real world."

2. path settings

```
From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Date: Thu, 11 Jun 1998 21:06:05 -0500
To: "APRSSIG" <aprssig@tapr.org>
Cc: <mic-e@tapr.org>
Message-ID: <01bd95a6$a82a5be0$73cf2bcf@guy->
Rendered body type: text/plain
```

Hi guys and gals, Got a question. I have been playing with the path and message settings on my mic-e for about 4 months now and have not been able to figure out what it is I am doing wrong. I have programmed in the local wide digi's call signs with an additional wide on the end. To this data my station still does not digi my mobile. The info in the assembly manuall does not help me any. Got any suggestions?

Guy Story, KC5GOI
5301 East McKinney # 417
Denton Texas, 76208
940.243.0754
kc5goi@infospeedway.net

3. Re: [MIC-E:1680] path settings

```
From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Thu, 11 Jun 1998 23:13:07 -0400
To: <mic-e@tapr.org>
Message-ID: <199806120313.WAA15242@tapr.org>
Rendered body type: text/plain
```

On 6/11/98 10:10 PM Guy Story, KC5GOI (kc5goi@infospeedway.net) wrote:

>wide digi's call signs with an additional wide on the end. To this data my
>station still does not digi my mobile. The info in the assembly manuall

>does not help me any. Got any suggestions?
>
Can you copy the mobile with another station and post what the packet
looks like? That will help us tell you what is wrong.

Steve K4HG

4. Re: [MIC-E:1680] path settings

From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Date: Thu, 11 Jun 1998 22:56:24 -0500
To: "Bob Bruninga" <bruninga@nadn.navy.mil>, <mic-e@tapr.org>
Message-ID: <01bd95b6$11d4ff00$73cf2bcf@guy->
Rendered body type: text/plain

Here is what I get when I have path at 7on the omni side and msg at 0 on
the digi side.
KC5GOI-9>SSQU3W:`}]&l 2k1'8000008D00
Here is what I get when omni is at 0 and ssid at 0.
KC5GOI-9>SSQU3T:'}](l k1
these are from my history file on my station.
KC5GOI-9>SSQU3U:`}](l"&k1
KC5GOI-9>S31U3V-3:`}]'l"dk1'7DE4319422
Hope this helps, Thanks.

-----Original Message-----
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: Guy Story, KC5GOI <kc5goi@pacecar.infospeedway.net>
Date: Thursday, June 11, 1998 9:54 PM
Subject: Re: [MIC-E:1680] path settings

>Send us a sample of waht your packet looks like
>
>On Thu, 11 Jun 1998, Guy Story, KC5GOI wrote:
>
>> Hi guys and gals, Got a question. I have been playing with the path and
>> message settings on my mic-e for about 4 months now and have not been
able
>> to figure out what it is I am doing wrong. I have programmed in the
local
>> wide digi's call signs with an additional wide on the end. To this data
my
>> station still does not digi my mobile. The info in the assembly manuall
>> does not help me any. Got any suggestions?
>>
>> Guy Story, KC5GOI
>> 5301 East McKinney # 417
>> Denton Texas, 76208
>> 940.243.0754
>> kc5goi@infospeedway.net
>>
>>
>
>APRSdos REPLY/COMMENT:
>
>Reply mail addr: wb4apr@amsat.org
>US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
>See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
>See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

5. Re: [MIC-E:1680] path settings

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 12 Jun 1998 07:17:42 -0400 (EDT)
To: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Cc: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980612071209.9804A-100000@arctic>
Rendered body type: text/plain

On Thu, 11 Jun 1998, Guy Story, KC5GOI wrote:

> Here is what I get when I have path at 7on the omni side and msg at 0 on
> the digi side.
> KC5GOI-9>SSQU3W:`}]&l 2k1'8000008D00
And what do you have programmed into the VIA command? Unless you have 7
digipeaters listed, then you will get no digi path as shown above....
So this could be correct.

> Here is what I get when omni is at 0 and ssid at 0.
> KC5GOI-9>SSQU3T:'}](l k1
This is correct. It has 0 digipeaters

> these are from my history file on my station.
> KC5GOI-9>SSQU3U:`}](l"&k1
> KC5GOI-9>S31U3V-3:`}]'l"dk1'7DE4319422
This has the path set to 3, but the MSG switch is on the SSID side instead
of the DIGI side... So it goes out as a -3 (which no digipeaters have
implemented yet)

I think your problem is that you have no digipeaters programmed in the
Mic-E VIA string... I usually program the path of
RELAY,WIDE,WIDE,WIDE,WIDE,WIDE,WIDE

This way a path of 1 = RELAY
                   2 = RELAY,WIDE
                   3 = RELAY,WIDE,WIDE
                   4 = WIDE
                   5 = WIDE,WIDE
                   6 = WIDE,WIDE,WIDE
                   7 = WIDE,WIDE,WIDE,WIDE

 > Hope this helps, Thanks.
>
>
>
> -----Original Message-----
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: Guy Story, KC5GOI <kc5goi@pacecar.infospeedway.net>
> Date: Thursday, June 11, 1998 9:54 PM
> Subject: Re: [MIC-E:1680] path settings
>
>
> >Send us a sample of waht your packet looks like
> >
> >On Thu, 11 Jun 1998, Guy Story, KC5GOI wrote:
> >
> >> Hi guys and gals, Got a question. I have been playing with the path and
> >> message settings on my mic-e for about 4 months now and have not been
> able
> >> to figure out what it is I am doing wrong. I have programmed in the
> local
> >> wide digi's call signs with an additional wide on the end. To this data
> my
> >> station still does not digi my mobile. The info in the assembly manuall
> >> does not help me any. Got any suggestions?
> >>
> >> Guy Story, KC5GOI
> >> 5301 East McKinney # 417
> >> Denton Texas, 76208
> >> 940.243.0754
> >> kc5goi@infospeedway.net
> >>
> >>
> >
> >APRSdos REPLY/COMMENT:
> >
> >Reply mail addr: wb4apr@amsat.org
> >US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> >See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> >See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> >See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

6. digi list

From: GStory@icomply.com
Date: Fri, 12 Jun 1998 08:17:27 -0500

To: bruninga@nadn.navy.mil
Cc: mic-e@tapr.org, aprssig@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B994@lew_prods1.icomply.com>
Rendered body type: text/plain

Hello Bob, I got your reply last night about the digi settings. I got another question. Do I have to have all 7 digi's installed to make it work or if I only have say 4 will it only work up to a point and then not add a digi at all? If I remember correctly I only have this in the via line, kc5goi, wide, wide, relay. I am at work now and will have to wait until later to find ut exactly what I have. But I do know that I dont have all seven slots used.
        I posted this on the sigs so if anyone else was wondering they would find out too.
thanks and 73
Guy Story, KC5GOI

7. GPS-20

From: "Brown, Russ" <brownr@mdaw.mdc.com>
Date: 26 Jun 1998 10:19:35 U
To: "MIC-E" <mic-e@tapr.org>
Message-ID: <n1313265926.79197@mdaw.mdc.com>
Rendered body type: text/plain

Well, I've got my MIC-E assembled and programmed just in time for a trip from CA to NM starting on the July 4th weekend.

My problem is, I can't get my built-in GPS-20 board to initialize. I had it out in the backyard for 40 min last night but it still reports "PP0P0P" or something like that which means it's not getting a fix. I read in the archives that diagnostic s/w called SIGPLOT is available but I can't get to the APRSdos area.

Any suggestions on either of my problems?

Thanx,
Russ, KB6LUD

8. Re: [MIC-E:1685] GPS-20

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Fri, 26 Jun 1998 13:37:29 -0400
To: <mic-e@tapr.org>
Message-ID: <199806261737.MAA20468@tapr.org>
Rendered body type: text/plain

On 6/26/98 1:25 PM Brown, Russ (brownr@mdaw.mdc.com) wrote:

>Well, I've got my MIC-E assembled and programmed just in time for a trip
>from CA
>to NM starting on the July 4th weekend.
>
>My problem is, I can't get my built-in GPS-20 board to initialize. I had
>it out
>in the backyard for 40 min last night but it still reports "PP0P0P" or
>something
>like that which means it's not getting a fix. I read in the archives that
>diagnostic s/w called SIGPLOT is available but I can't get to the APRSdos
>area.
>
The reports with PPP...mean that you are not getting a valid signal into the Mic-E. More likely than the GPS have a problem is that the output isn't wired correctly. Check the wiring, and if you have access to a scope probe the serial outputs. I have a serial cable with clip leads that comes in mighty handy for sitations like this, you can plug into the output of the board to watch the NMEA data, and see if the lack of satellite lock is really the problem...

Steve K4HG

9. RE: [MIC-E:1685] MIC-E digest 336

From: GStory@icomply.com
Date: Fri, 26 Jun 1998 12:49:44 -0500
To: mic-e@tapr.org
Message-ID: <F1C006463F86D111A7F900805FE2B3B3B9BE@lew_prods1.icomply.com>
Rendered body type: text/plain

What are you using for an antenna. I had to get the amped antenna before mine would work.

Guy Story, KC5GOI

KTL- Dallas
802 N. Kealy
Lewisville, Tx 75057-3136
Ph:972-436-9600
Fax: 972-436-2667
gstory@icomply.com
"The opinions expressed in this message do not necessarily represent the
views of my employer"

> -----Original Message-----
> From: mic-e@tapr.org [SMTP:mic-e@tapr.org]
> Sent: Friday, June 26, 1998 12:26 PM
> To: mic-e@tapr.org
> Subject: [MIC-E:1685] MIC-E digest 336
>
>   MIC-E Digest 336
>
> Topics covered in this issue include:
>
>   1) GPS-20
>   by "Brown, Russ" <brownr@mdaw.mdc.com>
>
> --
>
> Date: 26 Jun 1998 10:19:35 U
> From: "Brown, Russ" <brownr@mdaw.mdc.com>
> To: "MIC-E" <mic-e@tapr.org>
> Subject: GPS-20
> Message-ID: <n1313265926.79197@mdaw.mdc.com>
>
> Well, I've got my MIC-E assembled and programmed just in time for a
> trip from CA
> to NM starting on the July 4th weekend.
>
> My problem is, I can't get my built-in GPS-20 board to initialize. I
> had it out
> in the backyard for 40 min last night but it still reports "PP0P0P" or
> something
> like that which means it's not getting a fix. I read in the archives
> that
> diagnostic s/w called SIGPLOT is available but I can't get to the
> APRSdos area.
>
> Any suggestions on either of my problems?
>
> Thanx,
> Russ, KB6LUD
>
>
> ------------------------------
>
> End of MIC-E Digest 336
> **********************

10. RE: [MIC-E:1687] RE: MIC-E digest 336

From: "Brown, Russ" <brownr@mdaw.mdc.com>
Date: 26 Jun 1998 12:52:23 U
To: gstory@icomply.com, mic-e@tapr.org
Cc: brownrj@pacbell.net
Message-ID: <n1313256842.24831@mdaw.mdc.com>
Rendered body type: text/plain

>> My problem is, I can't get my built-in GPS-20 board to initialize. I
>> had it out in the backyard for 40 min last night but it still reports
>> "PP0P0P" or something like that which means it's not getting a fix.
>> I read in the archives that diagnostic s/w called SIGPLOT is available
>> but I can't get to the APRSdos area.
> Russ, KB6LUD

gstory@icomply.com asked:
> What are you using for an antenna. I had to get the amped antenna
> before mine would work.

I am using a Garmin active antenna so I don't think that's the problem. Tonite
I plan to check that the 3 wires at JP3 are still intact and I'll also check
that the JP232 jumper is in place. If all that doesn't work, I'll let it
initialize for a couple hours.

Any other ideas?

Thanks,
Russ, KB6LUD

11. Re: [MIC-E:1685] GPS-20

From: Stephen Schwarm <schwarm@mitre.org>
Date: Fri, 26 Jun 1998 15:58:39 -0400
To: mic-e@tapr.org, brownr@mdaw.mdc.com
Message-ID: <3593FD6F.2A78EE4C@mitre.org>
Rendered body type: text/plain

The first time it comes up it my take more than one power cycle
to sync to the sats. Mine took 20 mins the first time but not nearly
as long from that time on. Try connecting a computer and watching
the data stream. It gives you a good idea of how well it is seeing
the sats.

Steve, W3EVE

Brown, Russ wrote:
>
> Well, I've got my MIC-E assembled and programmed just in time for a trip from CA
> to NM starting on the July 4th weekend.
>
> My problem is, I can't get my built-in GPS-20 board to initialize. I had it out
> in the backyard for 40 min last night but it still reports "PP0P0P" or something
> like that which means it's not getting a fix. I read in the archives that
> diagnostic s/w called SIGPLOT is available but I can't get to the APRSdos area.
>
> Any suggestions on either of my problems?
>
> Thanx,
> Russ, KB6LUD

12. Re: [MIC-E:1685] GPS-20

From: Dr Samuel Guccione <sguccion@outland.dtcc.edu>
Date: Sat, 27 Jun 1998 23:29:03 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SV4.3.95.980627232450.17001A-100000@outland.dtcc.edu>
Rendered body type: text/plain

Bill,

I have had numerous problems with my GPS-20's (have had 3 of them). Most
recently was trying to get a MIC-E with internal GPS-20 to work in my 1997
Plymouth Voyager Van. NO LUCK!!! But I attached the MIC-E/GPS-20 to a 12
volt battery sitting on the floor of van and guess what it works
absolutely correctly. I know that GPS-20's are particular about the power
applied to them. I am still using the battery since it is a simple fix for
me. Am going to try a direct connect to my van's car system battery and
see if that does not help. Hope this provides some ideas for you to try.

Sam

On Fri, 26 Jun 1998, Brown, Russ wrote:

> Well, I've got my MIC-E assembled and programmed just in time for a trip from CA
> to NM starting on the July 4th weekend.
>
> My problem is, I can't get my built-in GPS-20 board to initialize. I had it out
> in the backyard for 40 min last night but it still reports "PP0P0P" or something
> like that which means it's not getting a fix. I read in the archives that
> diagnostic s/w called SIGPLOT is available but I can't get to the APRSdos area.
>
> Any suggestions on either of my problems?
>
> Thanx,
> Russ, KB6LUD
>
>

****
Dr. Sam Guccione   Delaware Technical & Community College
Chair Engineering   Terry Campus
Technologies/Physics   1832 North duPont Highway
302-741-2802   Dover, DE 19901
ARS K3BY   302-741-2837 Fax

```
*************************************************************
         Delaware Rocket Launch Technical Home Page
           http://www.dtel.terry.dtcc.edu/~rocket
*************************************************************
```

13. Re: [MIC-E:1690] Re: GPS-20

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Sun, 28 Jun 1998 00:13:51 -0400
To: <mic-e@tapr.org>
Message-ID: <199806280413.XAA25910@tapr.org>
Rendered body type: text/plain

On 6/27/98 11:32 PM Dr Samuel Guccione (sguccion@outland.dtcc.edu) wrote:

>I have had numerous problems with my GPS-20's (have had 3 of them). Most
>recently was trying to get a MIC-E with internal GPS-20 to work in my 1997
>Plymouth Voyager Van. NO LUCK!!! But I attached the MIC-E/GPS-20 to a 12
>volt battery sitting on the floor of van and guess what it works
>absolutely correctly. I know that GPS-20's are particular about the power
>applied to them. I am still using the battery since it is a simple fix for
>me. Am going to try a direct connect to my van's car system battery and
>see if that does not help. Hope this provides some ideas for you to try.
>
The GPS-20 is VERY picky about it's voltage...it must be 5 volts! In the
Mic-E installation this can be provided from the on-board regulator. If
you had wired it to take its voltage from the 12 volt side, you'd be
lucky if you didn't fry the unit.

If your unit is wired to the 5 volt bus inside the Mic-E, then the input
power should not vary between the auto and bttery. I'd suspect the ugly
ground loop problem...

Steve

14. Re: GPS-20

From: wa2ysm@juno.com (Elmer M Sharp)
Date: Sun, 28 Jun 1998 10:34:14 -0400
To: mic-e@tapr.org
Message-ID: <19980628.103415.3726.0.wa2ysm@juno.com>
Rendered body type: text/plain

Sam, you don't mention what antenna you are using with your GPS-20 that
is giving you trouble. I, too, had a lot of trouble getting mine to
initialize. Finally when I put a GOOD amplified antenna on it everything
started working fine. The light labeled "pwr/fix" will blink when the
GPS unit is seeing birds. This is my clue that it has acquired the
necessary inputs. I piped the output from the GPS unit into a terminal
program (I used hyperterm in Windows 95) and examined the data comming
from the GPS unit. Everything was working fine EXCEPT the unit was not
decoding signals from the birds. A proper antenna located with a good
view of the sky fixed that. Good luck
73,   Elmer (WA2YSM@JUNO.COM)

ps: the fix I saw from the GPS unit before I put the good antenna on it
was a Taipai suburb in Taiwan.

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

15. Re: GPS-20

From: "Russ Brown" <brownrj@pacbell.net>
Date: Sun, 28 Jun 1998 16:13:01 -0700
To: <mic-e@tapr.org>
Message-ID: <01bda2ea$4c20b1e0$64f568cf@brownrj>
Rendered body type: text/plain

Elmer said this morning:

>I piped the output from the GPS unit into a terminal

>program (I used hyperterm in Windows 95) and examined the data

>comming from the GPS unit. Everything was working fine EXCEPT the

>unit was not decoding signals from the birds

So I did the same thing today - with the following results. Note: All sentences (except the 2nd) repeated for a full hour while I was parked on a treeless hilltop using a Garmin GA-27 active antenna (on the roof, of course). The only data that changed was that seconds were incremented and satellites in view ($GPGSV) changed but that doesn't mean its receiving anything, right?

$GPRMC,185149,V,,,,,,280698,,*3C

$PGRMT,GPS 20-00 VER 1.29 ,P,P,R,R,P,*3E

$GPGGA,185149,,,,,0,00,,,M,,M,,*66

$GPGSA,A,1,,,,,,,,,,,,,,*1E

$GPGSV,2,1,05,01,08,152,,14,15,253,,25,47,080,,29,36,165,*75

$GPGSV,2,2,05,31,21,204,,,,,,,,,,,,*4B

$PGRME,,,,,,*4D

$GPVTG,,T,,M,,N,,K*4E

My analysis:

$GPRMC,185149,V,,,,,,280698,,*3C - Its got the time and date right, but the killer is the "V". The V means "NAV receiver warning"

$GPGSA,A,1,,,,,,,,,,,,,,*1E - 1=no fix, not tracking any sats

Is this 1 hour test conclusive evidence that my GPS-20 board is bad or is there something else I should try? I plan to take it on the road for 2 weeks starting Thursday, so I've got to do something FAST!!!

Russ, KB6LUD

16. Re:GPS-20

From: "Russ Brown" <brownrj@pacbell.net>
Date: Sun, 28 Jun 1998 20:34:45 -0700
To: <mic-e@tapr.org>
Message-ID: <01bda30e$dc41a080$19c269cf@brownrj>
Rendered body type: text/plain

(Lets try sending this again!)

Elmer said this morning:

>I piped the output from the GPS unit into a terminal

>program (I used hyperterm in Windows 95) and examined the data

>comming from the GPS unit. Everything was working fine EXCEPT the

>unit was not decoding signals from the birds

So I did the same thing today - with the following results. Note: All sentences (except the 2nd) repeated for a full hour while I was parked on a treeless hilltop using a Garmin GA-27 active antenna (on the roof, of course). The only data that changed was that seconds were incremented and satellites in view ($GPGSV) changed but that doesn't mean its receiving anything, right?

$GPRMC,185149,V,,,,,,280698,,*3C

$PGRMT,GPS 20-00 VER 1.29 ,P,P,R,R,P,*3E

$GPGGA,185149,,,,,0,00,,,M,,M,,*66

$GPGSA,A,1,,,,,,,,,,,,,,*1E

$GPGSV,2,1,05,01,08,152,,14,15,253,,25,47,080,,29,36,165,*75

$GPGSV,2,2,05,31,21,204,,,,,,,,,,,,*4B

$PGRME,,,,,,*4D

$GPVTG,,T,,M,,N,,K*4E

My analysis:

$GPRMC,185149,V,,,,,,280698,,*3C - Its got the time and date right, but the killer is the "V". The V means "NAV receiver warning"

$GPGSA,A,1,,,,,,,,,,,,,,*1E - 1=no fix, not tracking any sats

Is this 1 hour test conclusive evidence that my GPS-20 board is bad or is there something else I should try? I plan to take it on the road for 2 weeks starting Thursday, so I've got to do something FAST!!!

Russ, KB6LUD

17. Re: GPS-20

From: Russ Brown <brownrj@pacbell.net>
Date: Sun, 28 Jun 1998 21:01:56 +0000
To: mic-e@tapr.org
Message-ID: <3596AF44.4C3544E6@pacbell.net>
Rendered body type: text/plain

(I apologize for the previous blank posts. I pasted from Wordpad into MS Outlook and everything looked OK until it hit the reflector. ??? I'm trying Netscape this time...)

Elmer said this morning:

>I piped the output from the GPS unit into a terminal
>program (I used hyperterm in Windows 95) and examined the data
>comming from the GPS unit. Everything was working fine EXCEPT the
>unit was not decoding signals from the birds

So I did the same thing today - with the following results. Note: All sentences (except the 2nd) repeated for a full hour while I was parked on a
treeless hilltop using a Garmin GA-27 active antenna (on the roof, of course). The only data that changed was that the time in seconds was incremented
and satellites in view ($GPGSV) changed but that doesn't mean its receiving
anything, right?

$GPRMC,185149,V,,,,,,280698,,*3C
$PGRMT,GPS 20-00 VER 1.29 ,P,P,R,R,P,*3E
$GPGGA,185149,,,,,0,00,,,M,,M,,*66
$GPGSA,A,1,,,,,,,,,,,,,,*1E
$GPGSV,2,1,05,01,08,152,,14,15,253,,25,47,080,,29,36,165,*75
$GPGSV,2,2,05,31,21,204,,,,,,,,,,,,*4B
$PGRME,,,,,,*4D
$GPVTG,,T,,M,,N,,K*4E

My analysis:
$GPRMC,185149,V,,,,,,280698,,*3C - Its got the time and date right, but

the killer is the "V". The V means "NAV receiver warning"

$GPGSA,A,1,,,,,,,,,,,,,,*1E - 1=no fix, not tracking any sats

Is this 1 hour test conclusive evidence that my GPS-20 board is bad or is
there something else I should try? I plan to take it on the road for 2 weeks starting Thursday, so I've got to do something FAST!!!

Russ, KB6LUD

18. Re: [MIC-E:1695] Re: GPS-20

From: Boyd Prestwood <w2hob@uscom.com>
Date: Mon, 29 Jun 1998 08:44:44 -0400
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19980629084444.006a1ba4@mail.uscom.com>
Rendered body type: text/plain

At 11:06 PM 6/28/98 -0500, KB6LUD wrote:

>My analysis:
>$GPRMC,185149,V,,,,,,280698,,*3C - Its got the time and date right, but
>
>the killer is the "V". The V means "NAV receiver warning"
>
>$GPGSA,A,1,,,,,,,,,,,,,,*1E - 1=no fix, not tracking any sats
>
>Is this 1 hour test conclusive evidence that my GPS-20 board is bad or
>is

>there something else I should try? I plan to take it on the road for 2
>weeks starting Thursday, so I've got to do something FAST!!!
>
>Russ, KB6LUD

W2HOB RESPONSE: Hi Russ... I would say your GPS-20 is working ok but it just hasn't lockled onto any birds yet. I know the concensus is to let it stay in one place for as long as it takes to lock on, but I have 6 of the little buggers and I had to take each one of them for a little ride down the highway for 20-30 minutes before they would lock on.

Each one would sit in my car with a terminal program to monitor their output and I would get exactly what you got,,, NULL strings! I used the 24-dB gain antenna from Trimble... Motorola has its name on the same thing as does Loew's. Nothing... for hours...

I let it stay just as it was and cranked up the engine and took off down the highway... drove about 15 minutes in one direction, made a U-turn and came back in the other... before I could make it home, it had acquired all 8 birds with maximum S/N ratio bars and was giving good LAT/LONs.

Give it a try... they are a pesky lot... the Tripmate initializes in a few minutes... my Motorola VP's are quick... once you build an almanac, next power-up shouldn't take as long.

Hope this helps. Have fun es
73 de Boyd W2HOB
Southern New Jersey

19. Attn SoCal GPS-20 owners

From: "Brown, Russ" <brownr@mdaw.mdc.com>
Date: 30 Jun 1998 07:37:47 U
To: "mic-e" <mic-e@tapr.org>
Message-ID: <n1312930168.86268@mdaw.mdc.com>
Rendered body type: text/plain

If you live in Southern California and want to sell (or rent for 2 weeks) your GPS-20 board, I HAVE CASH. The board must be WORKING. Please respond TODAY.

Please Call Russ Brown
work: (714) 896-5161
home: (949) 661-8982

Thank you very much.

July 1998

Original source file: mic-e.9807
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9807

1. Ground Loop

From: "Guy Story, KC5GOI" <kc5goi@infospeedway.net>
Date: Fri, 3 Jul 1998 03:43:41 -0500
To: <mic-e@tapr.org>
Message-ID: <01bda65e$ae860fc0$68cf2bcf@guy->
Rendered body type: text/plain

Hello everyone, was working on the ground loop problem last night and came up with a couple of interesting points.
    1. Found that the solder pad that that the mounting tab of the 7805 is floating. I tied it to chassis ground and eliminated the noise. One problem, my internal gps reciever while it showed to receive, it did not decode any of the gps data. Got PPPPPP only.
    2. Tied chassis ground on the gps receiver to the chassis ground of the mic-e. No effects.
    I know I am close now but what to do about the loss of data has me confused.
73
Guy Story, KC5GOI
Silver Dome Mobile Pk. # 79
Denton Texas, 76208
940.243.0754
kc5goi@infospeedway.net
www.infospeedway.net/~kc5goi/home.htm

2. Keying radio after turning off mic-e

From: Richard W Umberger <n7hhu@ykm.com>
Date: Mon, 06 Jul 1998 13:12:09 -0700
To: mic-e@tapr.org
Message-ID: <35A12F99.ABF55E99@ykm.com>
Rendered body type: text/plain

Hi all,

I have a problem with my mic-encoder. When I turn it off, my Kenwood 241 will key up. Is there any way to correct this problem...

Thanks

Richard Umberger N7HHU
n7hhu@ykm.com

3. Re: [MIC-E:1699] Keying radio after turning off mic-e

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Mon, 06 Jul 1998 20:46:52 +0000
To: mic-e@tapr.org
Message-ID: <35A137BC.E3C5B50F@amsat.org>
Rendered body type: text/plain

I'll e-mail you the solution from the archives.

         [MIC-E:1588] Field Change Order for Mic-E

Ron

Richard W Umberger wrote:
>
> Hi all,
>
> I have a problem with my mic-encoder. When I turn it off, my Kenwood 241
> will key up. Is there any way to correct this problem...
>
> Thanks
>
> Richard Umberger N7HHU
> n7hhu@ykm.com

--
Ron Parsons
W5RKN

4. Motorola P100

From: "Dale Orth" <deorth@flash.net>
Date: Mon, 6 Jul 1998 17:20:27 -0500
To: <mic-e@tapr.org>
Message-ID: <000401bda92c$4e3b3480$570b1ed1@coyote2>
Rendered body type: text/plain

Does anyone know the pinout configuration for the Motorola Radius P100 radio? Or wiring for the PTT Connection and Personality Header.

The RADIO connector for an external mic/speaker combination has 4 pins (1 large, 3 small).

```
         L
    S3   S1
        S2
```

Thanks in advance.
Dale

5. help

From: David Boyle <kr4cn@gte.net>
Date: Thu, 23 Jul 1998 16:17:40 -0700
To: mic-e@tapr.org
Message-ID: <35B7C494.AB0F7393@gte.net>
Rendered body type: text/plain

Hi, This is Dave in Brooksville Fl. I am trying to interface a Radio Shack HTX-202 to a Mic-e. The PTT and Mic are on one line. I,m not too sure how this is connected to the Mic-e since it needs a separate line. Has anyone interfaced a HTX-202 successfully to a Mic-e? Any help would be gratefully accepted!.....73.....Dave, kr4cn@gte.net

August 1998

Original source file: mic-e.9808
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9808

1. 1998 ARRL and TAPR Digital Communications Conference

```
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 9 Aug 1998 12:20:14 -0600
To: "TAPR-BB  list   mailing"<tapr-bb@tapr.org>
Cc: "HF SIG  list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG  list   mailing"<aprssig@tapr.org>,
        "NETSIG  list   mailing"<netsig@tapr.org>,
        "BBS SIG  list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews@tapr.org, mic-e@tapr.org,
        TAPR Regional Freq <regional_freq@tapr.org>
Message-ID: <v04011707b1f39762e9cf@[168.191.230.109]>
Rendered body type: text/plain
```

1998 ARRL and TAPR Digital Communications Conference
September 25-27, 1998
Chicago, Illinois (minutes from O'Hare Airport)

Web: http://www.tapr.org/dcc

The 1998 ARRL and TAPR Digital Communications Conference will be held September 25-27, 1998, in Chicago, Illinois. This year's conference location is the Holiday Inn Rolling Meadows, just minutes from O'Hare Airport.

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. This includes APRS operators, digital networks, software writers, modem designers, and digital satellite enthusiasts. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to become active on a national level. Now, more than ever, amateur radio needs this great meeting of the minds because it is important that we demonstrate a continued need for the frequency allocations we have by pushing forward and documenting our achievements. The ARRL and TAPR Digital Communications Conference is one of the few ways to record our accomplishments and challenge each other to do more.

A Conference for the Beginner, Too

The conference is not just for the digital expert. This year's conference again provides multiple session tracks for beginning, intermediate, and advanced presentations on selected topics in digital communications. Topics will include APRS, satellite communications, TCP/IP, digital radio, Spread Spectrum, and many others. Come to the conference and hear these topics presented by the experts! Don't miss this opportunity to listen and talk to others in these areas.

Symposia and Seminars

In addition to the presentation of papers on Saturday, three symposia/seminars will be held. These sessions are provided to allow those with additional time and interest to make the most of the Digital Communications Conference. For those who may have interest in just one symposium or seminar, registration for the conference is not required to attend these activities. This allows maximum flexibility for those who may want to participate during the Digital Communications Conference, but do not have an entire weekend to devote to the event.

The Second APRS National Symposium will be held on Friday and will be moderated by Steve Dimse, K4HG (the developer of javAPRS). It will likely include many APRS software authors, such as Bob Bruninga, WB4APR (the father of APRS), Keith Sproul, WU2Z, Mark Sproul, KB2ICI (the developers of MacAPRS and WinAPRS), Brent Hildebrand, KH2Z (the developer of APRSPLUS), and other nationally-known APRS leaders. Join this group for the afternoon and evening for in-depth discussions and presentations on the current and future status of APRS. This is a unique opportunity to gain insight into

this fast-growing digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning System).

Starting late Friday afternoon, a half-day seminar titled "Infrastructureless Technologies in Amateur Radio," presented by Don Lemke, WB9MJN, will cover the pros and cons of DDMA (directivity division multiple access, a proposed infrastructureless technique) versus hubbed (cellular style) and other infrastructure dependent techniques, the basic problem of megabaud rate communications into the ham QTH, and some techniques for channel-area acquisition including full duplex/asynchronous versus simplex/synchronous radio/acquisition concepts. This seminar will start late enough on Friday afternoon to allow those flying that day to attend the seminar.

The Sunday morning seminar will be a combination of two different talks that will make one excellent seminar. The first presentation, by Lyle Johnson, WA7GXD, will focus on the upcoming RUDAK digital communications system scheduled to fly on the AMSAT Phase 3D satellite in the near future. Lyle will discuss features, systems design, integration, and experiments. The goal of the presentation is to zero in on the communications capabilities of RUDAK, the performance to be expected from the 153k6 PSK system, the limitations and capacities of the DSP modems, user requirements for receiving RUDAK, requirements for transmitting to RUDAK, and how amateurs can work to make ground operations a reality once the satellite is in operation. Information on how to submit a proposal for experimental time on RUDAK will be presented. The second presentation will be by Tim Shepard, KD1KY, regarding "Packet Radio Networks with Millions or Billions of Stations." This talk will present concepts and materials that make you think about different possibilities of networking in the future. Both Lyle's and Tim's presentations focus on different aspects of future digital communications possibilities.

Third Annual ARRL and TAPR DCC Student Papers Award

The deadline for the third annual ARRL and TAPR Student papers is past, please think about having students submit next year for the travel awards. TAPR and the ARRL especially welcome papers from full-time students to compete
for these student papers award. Two $500 travel awards may be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see the guidelines for more information). Papers co-authored by educators or telecommunications professionals are also eligible for this award as long as a student is the first author. The deadline for receipt of finished student paper manuscript is June 20, 1999. Please note that this deadline is different from the general conference paper submission date. For full details and paper guidelines contact TAPR or browse to http://www.tapr.org/dcc.

Call for Conference Proceeding Papers

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the conference is not required for publication. The primary purpose of the conference is to communicate ideas and techniques regarding digital communications. Papers written in an informal style are welcome, as well as those written to academic standards. If you know of someone who is doing great things with digital communications, be sure to tell them about this! Papers are due by August 15, 1998, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111, or via e-mail to lweinberg@arrl.org. The paper submission guidelines are available on-line (http://www.tapr.org/dcc).

Local/International Co-Host

The 1998 ARRL and TAPR Digital Communications Conference will be co-hosted by Chicago Amateur Packet Radio Association (CAPRA). CAPRA is one of the oldest packet radio groups in the US. It focuses on education about amateur packet radio, coordination of joint efforts of hams interested in packet radio, and technical and equipment support for a sound packet network in the Chicago area. They have had high-speed packet networks operational since the mid-1980s. Visit the CAPRA Web site at

http://www.imaxx.net/capra for more information.

PRUG (Packet Radio User Group of Japan) will be the first International co-host of the ARRL and TAPR Digital Communications Conference. The conference is proud to welcome PRUG as part of the conference. PRUG will be hosting an informal social Friday evening after the seminar and symposium are completed. Visit http://www.prug.or.jp for more information about the organization.

What can you expect during the 1998 ARRL and TAPR Digital Communications Conference?

* A full day of papers, breakout sessions, and selected topics on Saturday for the beginner to advanced amateur digital enthusiast.

* Three seminars/symposia
  Friday (1 PM)
  - Second Annual APRS National Symposium,
    moderated by Steve Dimse, K4HG

  Friday (3 PM)
  - Infrastructure Technologies in Amateur Radio
    conducted by Don Lemke, WB9MJN

  Sunday (8:30 AM)
  - RUDAK Future Operations and Experimentations
    by Lyle Johnson, WA7GXD
  - Packet Radio Networks with Millions or Billions of Stations
    by Tim Shepard, KD1KY

* Third Annual Student Paper Awards.

* TAPR Membership Meeting

* A banquet with special guest speaker Steve Roberts, N4RVE, of Nomadic Research Labs. Creator of the Winnebiko and Behemoth high-tech recumbent bicycles. His current project is focused on Microship technology (http://www.microship.com/).

* SIGs (Special Interest Groups) get-togethers on Saturday, following the banquet

* Informal get-togethers throughout the weekend

* A facility that is perfect for this type of conference

* Informal engineering discussions/demonstration areas

* Motorola Museum located in the area.

* An event at which the most important new developments in amateur digital communications are announced

* Digital 'movers and shakers' from all over the world in attendance

---

Conclusion

If you have attended a Digital Communications Conference in the past, remember how much fun it was discussing the latest developments into the wee hours! If you have never been to a Digital Communications Conference, then make your plans now to attend and find out how much fun they can be.

There are few activities where your participation can be so much fun and so important! You will be able to get together with colleagues from all over the world and bring each other up to date on your latest work. Experience all this and more for an unforgettable weekend of ham radio and digital communications. Make your travel and lodging arrangements now. We hope to see you at the ARRL and TAPR Digital Communications Conference, September 25-27!

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road #337, Tucson, AZ 85749-9399, phone 940-383-0000, fax 940-566-2544, e-mail tapr@tapr.org, browse www.tapr.org/dcc.

Sincerely,

   Steve Ford, WB8IMY, ARRL Conference Co-Chair
   Greg Jones, WD5IVD, TAPR Conference Co-Chair
   Steve Stroh, N8GNJ, Conference Manager
   Mark J. Thompson, WB9QZB, Local Host Liaison
   Carl Bergstedt, K9VXW, Local Host Liaison

Note: If you need conference handouts or flyers for ham club meetings,
contact TAPR to get what you need!

Hotel Information

Conference presentations, meetings, and seminars will be held at the
Holiday Inn Rolling Meadows. Special DCC rooms rates are $85 per night.
When making reservations with the hotel, be sure to indicate you are
attending the ARRL and TAPR DCC in order to get the discount. It is highly
recommended that you book your room prior to arriving. A block of 75 rooms
is reserved until August 31, 1998. After the 75 rooms are booked, rooms
will only be available in nearby hotels, so be sure to book your rooms
early! The hotel provides transportation to and from O'Hare Airport.
Please contact the hotel to arrange specific transportation needs.

   Holiday Inn Rolling Meadows (conference hotel)
   3405 Algonquin Rd
   Rolling Meadows, IL 60008
   Phone 847-259-5000, fax 847-259-0597

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
----
e-mail: tapr@tapr.org   web: <http://www.tapr.org/>
ftp: ftp.tapr.org
phone: 940-383-0000   fax: 940-565-2544
----

2. Problem with antenna

From: Chuen Ming Tan <TANCMING@hitachi.com.my>
Date: Tue, 11 Aug 1998 08:09:18 +0800
To: mic-e@tapr.org
Message-ID: <s5cffc3d.038@gwsmtp.hisem.com>
Rendered body type: text/plain

Hello all,

I am trying to build a radio to receive at the 2m band. I am starting
out with a Philips IC the TDA7000 and using it to receive the
commercial broadcast band at 88-107MHz. Upon successful implementation
I will introduce at the front end a mixer(NE602) to downconvert the
144-148MHz signal to approximately 100MHz. With a bandpass filter, I
should be able to get rid of the image without problem. Having
downconverted to 100MHz, it will then go in to the TDA7000 for
demodulation. The tuning is done at the LO of the TDA7000 using
varactor diode.

That's the background. What I have gotten so far is only to receive
limited commercial broadcast stations(that are strong). The quality of
the strong stations are good but there's another drawback in my
design. Each time I move the antenna about i get signal variations and
sometimes lost the tuned stations.

I suspect the cause to this problem is the lack of a buffer at the
front end antenna. But I really hope for further suggestions. Any help
will be very much appreciated.

Thanks,
M1BBH

September 1998

Original source file: mic-e.9809
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9809

1. aviation frequencies for MIC-E

From: "Dennis Eckert" <deckert7@gte.net>
Date: Tue, 1 Sep 1998 10:05:52 -0700
To: "MIC-E group" <mic-e@tapr.org>
Message-ID: <001201bdd5ca$c782f380$692afcd0@dennisec>
Rendered body type: text/plain

I've been looking through FCC Rules, Part 87, Aviation, trying to determine if APRS data bursts via MIC-E would be allowed on the glider frequencies of 123.300 and 123.500.
The idea is to transmit APRS data from a sailplane without requiring a 2nd transmitter, thus using the pilot's aircraft XCVR.

What is confusing is this: ground aviation support stations on 123.5 and 123.3 are limited to A3E emissions (AM telephony) but it appears that aircraft can transmit A3E and A9W where the following descriptions are pulled off the FCC web site:

A - double sideband

9 - Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analog information

W- Description Symbol - combination of telephony, television, data, telegraphy

so, I can't find anything that specifically prohibits it, and wonder if someone else has researched this.

Dennis Eckert

2. Re: [MIC-E:1705] aviation frequencies for MIC-E

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 1 Sep 1998 15:30:59 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980901153008.11914K-100000@arctic>
Rendered body type: text/plain

By calling the Mic-E a "selective calling device" you can get around most rules, since the FCC has said that selective calling is permitted on most frequencies, and there is no standard for Selective Calling!...

On Tue, 1
Sep 1998, Dennis Eckert wrote:

> I've been looking through FCC Rules, Part 87, Aviation, trying to determine if APRS data bursts via MIC-E would be allowed on the glider frequencies of 123.300 and 123.500.
> The idea is to transmit APRS data from a sailplane without requiring a 2nd transmitter, thus using the pilot's aircraft XCVR.
>
> What is confusing is this: ground aviation support stations on 123.5 and 123.3 are limited to A3E emissions (AM telephony) but it appears that aircraft can transmit A3E and A9W where the following descriptions are pulled off the FCC web site:
>
> A - double sideband
>
> 9 - Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analog information
>
> W- Description Symbol - combination of telephony, television, data, telegraphy
>
> so, I can't find anything that specifically prohibits it, and wonder if someone else has researched this.
>
> Dennis Eckert
>
>
>
>
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

3. Re: [MIC-E:1706] Re: aviation frequencies for MIC-E

From: "Dennis Eckert" <deckert7@gte.net>
Date: Tue, 1 Sep 1998 13:08:53 -0700
To: <mic-e@tapr.org>
Message-ID: <000801bdd5e4$594e37c0$28fd2399@dennisec>
Rendered body type: text/plain

Bob,

This certainly sounds promising. I searched around a bit on the FCC website, using their searcher, but found no references to this concept.

I anticipate some folks raising some questions and thus wonder if you or someone else can tell me where to find some more info in the FCC rules about this.

dennis

-----Original Message-----
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Tuesday, September 01, 1998 12:44 PM
Subject: [MIC-E:1706] Re: aviation frequencies for MIC-E

>By calling the Mic-E a "selective calling device" you can get around most
>rules, since the FCC has said that selective calling is permitted on most
>frequencies, and there is no standard for Selective Calling!...
>
>
>

4. Re: [MIC-E:1705] MIC-E digest 347

From: Joe Scalet <jscalet@swbell.net>
Date: Tue, 01 Sep 1998 15:17:32 -0500
To: mic-e@tapr.org
Message-ID: <35EC565C.D7E40E9A@swbell.net>
Rendered body type: text/plain

>   1) aviation frequencies for MIC-E
>   by "Dennis Eckert" <deckert7@gte.net>
>
> --
>
> What is confusing is this: ground aviation support stations on 123.5 =
> and 123.3 are limited to A3E emissions (AM telephony) but it appears =
> that aircraft can transmit A3E and A9W where the following descriptions =
> are pulled off the FCC web site:
>

Here's the deal:

Ground stations are covered by the FCC regulations.

Aircraft are covered by the FCC and the FAA. You need to check the FAR's as well. That's where the freq allocations are.

5. RE: [MIC-E:1708] Re: MIC-E digest 347

From: "Borcher, David (NG-EX)" <DBorcher@GI.com>
Date: Wed, 02 Sep 1998 10:40:58 -0400
To: mic-e@tapr.org
Message-ID: <0A7F08DCFAFFD1119FE6006097C510D0385D05@nogalesxch.nog.gi.com>
Rendered body type: text/plain

>
        > What is confusing is this: ground aviation support stations on
123.5 =
        > and 123.3 are limited to A3E emissions (AM telephony) but it
appears =
        > that aircraft can transmit A3E and A9W where the following
descriptions =
        > are pulled off the FCC web site:
        >

Here's the deal:

Ground stations are covered by the FCC regulations.

Aircraft are covered by the FCC and the FAA. You need to check the FAR's as
well. That's where the freq allocations are.

I know some people who are using digital codes for selective calling and other
functions on the aviation band. There are no significant restrictions. It IS
legal. As a matter of fact, even encryption is legal in some applications.

Dave K7NG

6. -182.411 Long. ???

From: "James A. Martin Jr." <james@jmartin.net>
Date: Wed, 2 Sep 1998 23:52:16 -0500
To: <MIC-E@tapr.org>
Message-ID: <000001bdd6f6$a0187c20$0300a8c0@jmaritn>
Rendered body type: text/plain

First of all, thanks to Brent Hildebrand for all the help.

I am a newcomer to APRS and the MicE device. I'm sure someone can assist me with this problem:

My MicE unit transmit a position of 31.88166667 -182.4111667 .
My actual position is 31.8 -102.411.

Any ideas where the error could be?

I double checked the internal GPS and even replaced it with an external GPS III to verify my actual position.

This MicE unit has worked recently in Mexico at this approx. location:
N31 W113

The only page in APRS that work because of the error is the Telemetry page and it shows the -183 longitude. APRS even tells me that the Long / Lat is out of range and won't show a position.

Below is the traces from the TNC page of APRS:

RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
RC124-9>S1URYP-7:`n4_l!H6/'76E9000000

Thanks for any help,

James A. Martin Jr.
Hughes Network Systems
(888) 610-4078 Pager
(504) 481-0570 Mobile
(504) 293-7254 Office

Send a SMS to my mobile:
5044810570@sms.bellsouth.com

Send an instant SkyTel text message:
6104078@skymail.com
http://www.skytel.com/Paging/pageme.cgi?pin=6104078,4

7. Re: [MIC-E:1710] -182.411 Long. ???

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Thu, 3 Sep 1998 08:03:50 -0400
To: <mic-e@tapr.org>
Message-ID: <199809031205.HAA00707@tapr.org>
Rendered body type: text/plain

On 9/3/98 12:56 AM James A. Martin Jr. (james@jmartin.net) wrote:

>First of all, thanks to Brent Hildebrand for all the help.
>
>I am a newcomer to APRS and the MicE device. I'm sure someone can assist me
>with this problem:
>
>My MicE unit transmit a position of 31.88166667 -182.4111667 .
>My actual position is 31.8 -102.411.
>
>Any ideas where the error could be?
>
>I double checked the internal GPS and even replaced it with an external GPS
>III to verify my actual position.
>
>This MicE unit has worked recently in Mexico at this approx. location:
>N31 W113
>
>The only page in APRS that work because of the error is the Telemetry page
>and it shows the -183 longitude. APRS even tells me that the Long / Lat is
>out of range and won't show a position.
>
>Below is the traces from the TNC page of APRS:
>
>RC124-9>S1URYP-7:`n4_l!H6/'76E9000000
>RC124-9>S1URYP-7:`n4_l!H6/'76E9000000

Whatever program you are using (is it APRSdos?) has a bug. I just ran
this packet through both MacAPRS and javAPRS, and it gets interpreted as
31 52 54N and 102 24 40W....the correct position (after converting from
D.DDDDD to DD MM SS)...

If it is APRSdos, you should notify Bob, or if APRS+SA, tell Brent...

So relax, there is nothing wrong with your Mic-E!

Steve K4HG

8. Re: [MIC-E:1711] Re: -182.411 Long. ???

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 3 Sep 1998 09:01:45 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980903084813.7481A-100000@arctic>
Rendered body type: text/plain

> >My MicE unit transmit a position of 31.88166667 -182.4111667 .
> >My actual position is 31.8 -102.411.

This is correct. TO make the Mic-E more Internet friendly the encoding
was modified to make sure that there would be no "0" digit in the middle
digit of Longitude. So internally if that digit is "0", the Mic-E adds
"8". Thus -182 is equivalent to -102. Whatever you are using to receive
the data has to correct for that.

de WB4APR, Bob

9. Re: [MIC-E:1709] Re: MIC-E digest 347

From: John Rauch <john@web-cycat.com>
Date: Thu, 03 Sep 1998 18:47:30 -0400
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19980903184730.007f5100@web-cycat.com>
Rendered body type: text/plain

True enough about the FCC regulating the ground stations,

However, the FAA only controls LICENSED aircraft......   Is your glider
LICENSED or and experimentally EXEMPT apparatus??

John Rauch

10. Re:-182.411 Long.???

From: Russ Brown <brownrj@pacbell.net>
Date: Thu, 03 Sep 1998 22:22:36 +0000
To: mic-e <mic-e@tapr.org>
Message-ID: <35EF16AC.5FB98CC4@pacbell.net>
Rendered body type: text/plain

>My MicE unit transmit a position of 31.88166667 -182.4111667 .
>My actual position is 31.8 -102.411.

I reported this bug to Brent in early July when I discovered that my
MIC-E operating in Hobbs, NM was displayed NW of Hawaii. I don't know
if it's a problem with APRSplus, I didn't have the patience to figure it
out.

The good news is that WinAPRS and Precision Mapping 3.0 work just fine
with the MIC-E.
Russ Brown, KB6LUD

11. TAPR.ORG Down and now Back

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 14 Sep 1998 21:09:36 -0500
To: "HF SIG list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG list   mailing"<aprssig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews, mic-e,
        TAPR Regional Freq <regional_freq@tapr.org>
Message-ID: <v0401170fb2237bbfafc8@[207.8.125.53]>
Rendered body type: text/plain

TAPR.ORG was down on Saturday for a system upgrade. We installed a new
processor board as well as added more memory and a new 9G HD.

Sunday morning very early, the root drive crashed and burned. Lee spent
Sunday and today (Monday) recovering from the crash on root. We had backed
up the system just before the upgrade, so we didn't get hit very hard. We
took this time to also upgrade the OS on the system, which we had planned
to in the future.

Lee got the system back operational about 6pm tonight and all aspects of
the system should be operational by this posting. We will be spending the
rest of tonight doing checks on various automatic operations to make sure
that everything is running correctly.

Cheers - Greg

Greg Jones, WD5IVD
        President TAPR (http://www.tapr.org)
        PhD Candidate, Instructional Technology, UT Austin

email: wd5ivd@tapr.org
web: http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

12. 1998 ARRL and TAPR DCC this coming weekend !

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 22 Sep 1998 17:41:08 -0500
To: "TAPR-BB list   mailing"<tapr-bb@tapr.org>
Cc: "HF SIG list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG list   mailing"<aprssig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews, mic-e,
        TAPR Regional Freq <regional_freq@tapr.org>
Message-ID: <v04011717b22dd78686a9@[128.83.74.103]>
Rendered body type: text/plain

Just as a reminder the 1998 ARRL and TAPR Digital Communications Conference
in Chicago, IL is happening this weekend!

The conference schedule and information is on-line at http://www.tapr.org/dcc
The abstract page should be on-line shortly.

Hope to see you in Chicago this weekend!

Cheers - Greg Jones, WD5IVD

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

13. Modification

From: WCovey@aol.com
Date: Tue, 22 Sep 1998 20:52:25 EDT
To: mic-e@tapr.org
Message-ID: <31ee3776.36084649@aol.com>
Rendered body type: text/plain

I'm back to experimenting with the production model of the MIC-E. I remember sometime back a schematic/picture of a fix being presented that would solve the problem of the Mic-E causing the radio to xmit when the mic-e was turned off. I thought I had printed this information. Can't locate the jpeg or bitmap of the actual fix..I need a picture of the placement. Did locate the text. If someone still has the actual jpeg; I'd appreciate receiving it. I was surprised that this fix wasn't added to the mic-e manual, with schematic etc. Thanks to all Bill, W1GTT

14. Mic-E modes

From: Steve Burnett <sburn@smbtech.com>
Date: Thu, 24 Sep 1998 18:12:58 -0700 (PDT)
To: mic-e@tapr.org
Message-ID: <Pine.LNX.3.96.980924180858.11616C-100000@smbtech.com>
Rendered body type: text/plain

Forgive me in advance if this question has been asked here before ;-)

After reviewing the Mic-E manual, it's unclear to me if the Mic-E can be set to transmit in a conventional (non Mic-E) format. I'm considering using one for APRS/GPS and I was curious as to what I would do when there's no Mic-E protocol station around my location.

_____
| Steve M. Burnett sburn@smbtech.com |

15. Re: [MIC-E:1718] Mic-E modes

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 24 Sep 1998 22:05:24 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.SOL.3.96.980924220233.14512F-100000@arctic>
Rendered body type: text/plain

On Thu, 24 Sep 1998, Steve Burnett wrote:

> After reviewing the Mic-E manual, it's unclear to me if the Mic-E can be
> set to transmit in a conventional (non Mic-E) format. I'm considering
> using one for APRS/GPS and I was curious as to what I would do when
> there's no Mic-E protocol station around my location.

Yes, and yes.

1) Any Mic-E can be used on the APRS frequency as is, and all DIGIS and other APRS statiosn will copy it. Just put it in AUTO mode so that it doesnt need the Mic PTT to transmit. THis is best mode, since then all the front panel knobs still work so you can adjust the path and adjust the beacon rate fromt he front panel without a laptop.

2) All Mic-E's can be configured in MIM mode. In this mode it can be used as a stand-alone tracker and will also have up to 5 analog and 8 digital telemetry channels. (The Mic-E only has 3 analog, all the rest of the bits are used up by the front panel switches).

bob, WB4APR

16. Re: [MIC-E:1718] Mic-E modes

From: Alan Crosswell <n2ygk@weca.org>
Date: Fri, 25 Sep 98 10:20:40 EDT
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.906733240.alan@watsol>
Rendered body type: text/plain

> Forgive me in advance if this question has been asked here before ;-)
>
> After reviewing the Mic-E manual, it's unclear to me if the Mic-E can be
> set to transmit in a conventional (non Mic-E) format. I'm considering
> using one for APRS/GPS and I was curious as to what I would do when
> there's no Mic-E protocol station around my location.
>
> _____
> | Steve M. Burnett sburn@smbtech.com |
>
>

Most if not all APRS implementations understand Mic-E compressed position reports. You will not however be able to use SSID digipeating since that requires a special digipeater that knows how to map the SSID into a digi path.
73 de Alan N2YGK

17. MIC-E Telemetry Circuits

From: rdrumhel@csc.com
Date: Tue, 29 Sep 1998 07:42:37 -0700
To: mic-e@tapr.org
Message-ID: <8825668E.0050B8A5.00@csc.com>
Rendered body type: text/plain

Greetings;

Does anyone out there have come circuits that can be used as analog input to the mic-e? I understand that there are three input ports available
for use.   I would like to put my mic-e to some use, since I do not know of any repeaters in the San Diego area that have mic-e capabilities.

I was wondering if the mic-e can be used as a stand-alone tnc to provide such functions as temperature, wind speed, logic on/off for devices.

Any help with info, circuits, and experience would be greatly appreciated.

Ron Drumheller, K3NXF
Ramona, CA

October 1998

Original source file: mic-e.9810
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9810

1. proper care and feeding of the mic-e

From: Wes Johnston <kd4rdb@usa.net>
Date: Tue, 06 Oct 1998 23:20:50 -0400
To: mic-e@tapr.org
Message-ID: <3.0.32.19981006232048.0072ad04@butler>
Rendered body type: text/plain

Now that I'm kinda settled into my new home, I have more and more time in
the evening to tinker. I need to know about powering the mic-e.   How
serious is the note about 7.2v in the docs? My radio can supply 8v at the
mic plug, but I do not want to exceed the specs and blow my MIC-E up.
Also, how much current can be drawn from the typical mic plug? Certainly a
mic-e and a 150mA for the GPS is LOADS more than the DTMF encoder in my
stock mic.
Wes
Email: mailto:kd4rdb@eagnet.com
AlphaPager: mailto:kd4rdb@eagnet.com - subject line: PAGER
APRS: http://www.qsl.net/kd4rdb/aprs.htm

Santa's elves are just a bunch of subordinate Clauses.

2. Re: [MIC-E:1722] proper care and feeding of the mic-e

From: Alan Crosswell <n2ygk@weca.org>
Date: Tue, 6 Oct 98 23:40:54 EDT
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.907731654.alan@watsol>
Rendered body type: text/plain

> Now that I'm kinda settled into my new home, I have more and more time in
> the evening to tinker. I need to know about powering the mic-e.   How
> serious is the note about 7.2v in the docs? My radio can supply 8v at the
> mic plug, but I do not want to exceed the specs and blow my MIC-E up.
> Also, how much current can be drawn from the typical mic plug? Certainly a
> mic-e and a 150mA for the GPS is LOADS more than the DTMF encoder in my
> stock mic.
> Wes
> Email: mailto:kd4rdb@eagnet.com
> AlphaPager: mailto:kd4rdb@eagnet.com - subject line: PAGER
> APRS: http://www.qsl.net/kd4rdb/aprs.htm
>
> Santa's elves are just a bunch of subordinate Clauses.
>

If your stock Mic is on a kenwood like my TM-733 (8V sounds familiar)
just be forewarned that you will "get" to do some surface mount work
to replace the fuse if you short that +8 pin like I did:-) The worst
part was losing all the freqs I had programmed in!

I don't think you want to mess around with drawing that much current
from the mic plug. The limit should be in the specs for your rig --
don't forget that the mic is still there and still drawing it's usual
load.

73 de Alan N2YGK

PS: I don't remember the exact details (my docs were for the beta unit)
    but I think 7.2 was the minimum voltage if you are using the unit's
    7805 which regulates it at +5. Anyway, I powered mine external to the
    rig -- let's the GPS operate even if the rig is turned off....

3. Re: [MIC-E:1721] MIC-E Telemetry Circuits

From: Larry Mollica <larry@soma.net>
Date: Tue, 6 Oct 1998 21:11:56 -0700
To: mic-e@tapr.org
Message-ID: <l03130301b24098e63153@[181.100.100.101]>
Rendered body type: text/plain

rdrumhel@csc.com writes:
>Greetings;
>
>Does anyone out there have come circuits that can be used as analog
>input to the mic-e? I understand that there are three input ports
>available

>for use.   I would like to put my mic-e to some use, since I do not know of
>any repeaters in the San Diego area that have mic-e capabilities.

Bear in mind the mic-e can be used as a stand-alone tracker on the standard
APRS channels, ie 145.79. That's what I use mine for.

>I was wondering if the mic-e can be used as a stand-alone tnc to provide
>such functions as temperature, wind speed, logic on/off for devices.

Um, yes, if you want to SEND some telemetry like that. It has no receive
capability (other than audio-detect so it doesn't xmit when the channel is
in use). It is not a TNC.

Also note, while you can hook up things to encode temperature and other
weather data on the analog inputs, this doesn't mean it will show up on
APRS maps as a weather station.

I see in a reade file that comes with DOS APRS, "TELEMTRY.TXT", that
APRSDOS can be setup to decode received the mic-e data in to "real-world
values" such as temperature. But as far as I know the Mac/WinAPRS version
does not have the capablity to display mic-e telemetry, other than the
message knob/alarm setting (yet).

The telemetry section of the mic-e manual has a temperature circuit, BTW.

Sorry I don't have any experience with actual telemetry on it, which is
probably what you really wanted to hear about... likewise if I'm telling
you stuff you already know!

---] Larry Mollica   WA6FSJ
---] Suspect's last whereabouts: http://map.aprs.net/wa6fsj-12

4. Re: [MIC-E:1721] MIC-E Telemetry Circuits

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 7 Oct 1998 00:59:55 -0600
To: mic-e@tapr.org
Message-ID: <v03102800b236d749d13b@[206.50.200.213]>
Rendered body type: text/plain

>Greetings;
>
>Does anyone out there have come circuits that can be used as analog
>input to the mic-e? I understand that there are three input ports
>available
>for use.   I would like to put my mic-e to some use, since I do not know of
>any repeaters in the San Diego area that have mic-e capabilities.
>
>I was wondering if the mic-e can be used as a stand-alone tnc to provide
>such functions as temperature, wind speed, logic on/off for devices.
>
>Any help with info, circuits, and experience would be greatly appreciated.
>
>Ron Drumheller, K3NXF
>Ramona, CA

Don't forget the TAPR e-mail archives can be searched by subject and
content . I remember several postings on this subject.

The KPC-3 Plus TNC has binary input ports and a pulsed output port.

Bob answered part of this is a message last week.

73

Bob - Dallas,TX --- kc5ejk@onramp.net or kc5ejk@amsat.org ---

5. Re: [MIC-E:1724] Re: MIC-E Telemetry Circuits

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 7 Oct 1998 09:22:50 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.04.9810070919050.29468-100000@arctic>
Rendered body type: text/plain

On Tue, 6 Oct 1998, Larry Mollica wrote:

> >Does anyone out there have come circuits that can be used as analog

> >input to the mic-e? I understand that there are three input ports

Yes, 3 analog inputs in Mic-E mode or 5 in MIM mode plus 8 on/off
switches. For a schematic for a temperature sensor, run MIC-TEMP.BAS.
It will show you how to hook up a thermister as one of the sensors. Also,
the Mic-E has a built in voltage divider to read the battery voltage.
Just enable jumper JP2 in the pin 1 position.

APRSdos will display these values on its TELEMETRY page. (alt-T)

de WB4APR, bob

6. Mic104d.exe

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 14 Oct 1998 13:05:58 -0400 (EDT)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.04.9810141304310.2847-100000@arctic>
Rendered body type: text/plain

ARGH!

My mic-e beta just lost its brains and I cannot find a copy of Mic104d.exe
anywhere. My main PC of that era died months ago. ANyone have a copy of
Mic104d.exe that they can post so I can get back on line?

bob

7. Re: [MIC-E:1727] Mic104d.exe

From: Kevin Kelly <kkelly@radix.net>
Date: Wed, 14 Oct 1998 13:50:55 -0400
To: mic-e@tapr.org
Message-ID: <3624E47F.84F492F4@radix.net>
Rendered body type: text/plain

Hi Bob,

I have 104e. Will that help you?

Bob Bruninga wrote:

> ARGH!
>
> My mic-e beta just lost its brains and I cannot find a copy of Mic104d.exe
> anywhere. My main PC of that era died months ago. ANyone have a copy of
> Mic104d.exe that they can post so I can get back on line?
>
> bob

--
73,
Kevin Kelly/N6QAB
http://www.qsl.net/n6qab/index.htm

8. Re: Mic104d.exe

From: "Warren A. Merkel" <kd4zdd@amsat.org>
Date: Wed, 14 Oct 1998 13:54:43 -0400
To: mic-e@tapr.org
Message-ID: <MDAEMON-F199810141354.AA540928MD00559@clientprofiles.com>
Rendered body type: text/plain

>
>
> My mic-e beta just lost its brains and I cannot find a copy of Mic104d.exe
> anywhere. My main PC of that era died months ago. ANyone have a copy of
> Mic104d.exe that they can post so I can get back on line?

Have you tried 1.07? See the software lib at TAPR,

ftp://ftp.tapr.org/tapr/mic-e/software/pc.zip

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

9. Mic-E Protocol

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 28 Oct 1998 12:35:54 -0500 (EST)
To: Jeff King <jeff@aerodata.net>
Cc: aprssig@tapr.org, mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9810281159490.18824-100000@arctic>
Rendered body type: text/plain

On Wed, 28 Oct 1998, Jeff King wrote:

> On another topic, got a e-mail from John Hansen and he was saying the
> MIC-E protocol would/is changing *(and you had a hand in it). Any
> idea were the new protocol might be and what enhancements might
> be in it?

There were three additions based on the needs of the Kenwood HT. These are backwards compatible, so all old TAPR Mic-E's continue to work.

1) Provision was made to permit an additional 6 custom messages in addition to the original built-in seven. THey simply are "C0" through "C6". No text. You just agree with your friends or local network what "C0" to "C6" mean beforehand.

2) The first letter of the STATUS text from a Kenwood HT will always be a ">". This allows us to know which Mic-E's are message capable.

3) Provision was made for position ambiguity. This way you will be able to enter a manual posit without having to be precise to the nearest 60 feet. Thus you can enter a position of approximately where you are and know that it will not be missinterpreted on the other end.

Example: You arrive in Baltimore from California. You start using your HT to send and receive messages, but you dont have your GPS or are inside all day. You want to enter a posit in Baltimore so it doesnt look like you are in LA. So you enter 3910.__N and 07640.__W. In APRSdos, you will be displayed normally in Baltimore, but if one zooms below the 4 mile range, your ICON becomes a 1 mile circle to show that your position is somewhere near there. If you only entered 391_.__N and 0764_.__W then your ICON will appear normally in Baltimore, but if someone zooms below the 64 mile range, then your ICON becomes a 10 mile circle. Again, clearly showing the viewers that your position is somewhere in that circle.

With the world-wide messaging capability of APRS, a message without a posit could be from anywhere on the planet. But sometimes you dont know exactly where you are. So position ambiguity allows you to enter an in-precise position so that others know about where you are... For my Kenwood HT, I will enter a position about half way between work and home with a 10 mile ambiguity. THus people will always see me in Maryland, but I could be anywhere in that circle. On those days when I plug in the GPS, of course, then they will see exactly where I am.

This position ambiguity is important to distinguish between positions that are known precisely (to the accuracy of GPS) and those that are estimates and should not be precisely plotted. I have requested the other authors to also convey position ambiguity whenever digits in the position are the SPACE character instead of digits.

So again, all old TAPR Mic-E's will still work as before. THese are just enhancements to optimize the protocol towards the Kenwood HT's vast potential as a world-wide APRS message communicator.

de WB4APR, Bob

November 1998

Original source file: mic-e.9811
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9811

1. Proper transmission

From: Dennis Rieger <kk5db@worldnet.att.net>
Date: Fri, 06 Nov 1998 08:32:43 -0700
To: "mic-e@tapr.org" <mic-e@tapr.org>
Message-ID: <3643169B.5D758A32@worldnet.att.net>
Rendered body type: text/plain

password 908750973

I cannot get the MIC-E to send a proper message. With the GPS
disconnected the packet sent is "KK5DB-4*>PPOPPP-1 : VX b/" with it
connected it transmits "KK5DB-4 * >SUPVRW-1 : r/ d1 # a B/". some of
the characters change with each packet but this is the general sense of
the packet. I have checked the output of the GPS with SA Watch and it
apperars to be sending the right sentence. Any ideas?

Thanks

Dennis KK5DB

2. Re: [MIC-E:1731] MIC-E digest 362

From: "D. F. Welch" <amersci@flash.net>
Date: Thu, 05 Nov 1998 21:28:22 -0800
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19981105212822.0097fbb0@pop.flash.net>
Rendered body type: text/plain

At 09:37 AM 11/6/98 -0600, you wrote:
>...With the GPS
>disconnected the packet sent is "KK5DB-4*>PPOPPP-1 : VX b/" with it
>connected it transmits "KK5DB-4 * >SUPVRW-1 : r/ d1 # a B/". some of
>the characters change with each packet but this is the general sense of
>the packet.

Dennis,
   The MIC-E transmission is compressed thus the clear
text you see at yor TNC looks strange. The APRS display
programs such as WINAPRS and APRS_PLUS know about the MIC-E
compression and properly decode the transmission.

The purpose of the compression is to reduce the length of
the MIC-E transmission to the neighborhood of 320 ms.
Beacon text will extend the burst length since it is not compressed.

For further reading, the MIC-E format is documented on the TAPR web site
www.tapr.org

73,
Dan Welch
w6dfw@qsl.net

3. Re: [MIC-E:1731] Proper transmission

From: Boyd Prestwood <w2hob@bellatlantic.net>
Date: Fri, 06 Nov 1998 17:08:55 -0500
To: mic-e@tapr.org
Message-ID: <36437377.FDC8250@bellatlantic.net>
Rendered body type: text/plain

Dennis Rieger wrote:
>
> password 908750973
>
> I cannot get the MIC-E to send a proper message. With the GPS
> disconnected the packet sent is "KK5DB-4*>PPOPPP-1 : VX b/" with it
> connected it transmits "KK5DB-4 * >SUPVRW-1 : r/ d1 # a B/". some of
> the characters change with each packet but this is the general sense of
> the packet. I have checked the output of the GPS with SA Watch and it
> apperars to be sending the right sentence. Any ideas?
>
> Thanks
>

> Dennis KK5DB

W2HOB RESPONSE: This is what the compressed format of the Mic-E looks
like with text-based monitoring programs. APRS will interpret it just
fine and display it on the maps if there is a valid POSIT in there. You
won't see the POSIT though... remember, it's compressed and looks like
gibberish!

Generally, KK5DB-4*>PPPPPP would indicate the GPS hasn't locked on the
birds yet and doesn't have a valid POSIT to send out... I don't remember
what else the Mic-E will send... I also don't understand the r/ dl # a
B/ either... do you any any telemetry attached?

Hope this sheds a "little" light on the subj.
Have fun es good luck.
73 de Boyd

4. mic-e .pdf docs

From: Marc Pichette <va3drv@rac.ca>
Date: Fri, 20 Nov 1998 15:36:58 -0500
To: mic-e@tapr.org
Message-ID: <3655D2EA.9DDDCA3C@rac.ca>
Rendered body type: text/plain

Greetings all!

  Just wondering if anyone has a working copy of the *.pdf manual for mic-e. I d/led the one off the
tapr site, but after
displaying the first page, it gives me an error message. Something about 'An unrecognized token 'gs'
was found'.

  I'm using acrobat reader 2.1 in case that tells anyone anything.

Otherwise, would someone be willing to send me a copy of the original docs? In ascii if neccesary.

  Thanks all!

73! de Marc, VA3DRV.
Director, Ottawa Amateur Radio Club.

5. Re: [MIC-E:1734] mic-e .pdf docs

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 20 Nov 1998 15:04:15 -0600
To: mic-e@tapr.org
Message-ID: <v0401170db27b89c08e02@[207.8.125.50]>
Rendered body type: text/plain

You need to have version 3.0 or 3.1 of the reader.

Cheers - Greg

> Greetings all!
>
> Just wondering if anyone has a working copy of the *.pdf manual for
>mic-e. I d/led the one off the tapr site, but after
>displaying the first page, it gives me an error message. Something about
>'An unrecognized token 'gs' was found'.
>
> I'm using acrobat reader 2.1 in case that tells anyone anything.
>
>Otherwise, would someone be willing to send me a copy of the original
>docs? In ascii if neccesary.
>
> Thanks all!
>
>73! de Marc, VA3DRV.
>Director, Ottawa Amateur Radio Club.

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

6. Re: [MIC-E:1734] MIC-E digest 364

From: "Jeff Brenton" <jeffb@rolltowel.com>
Date: Fri, 20 Nov 1998 15:24:18 -0600
To: <mic-e@tapr.org>
Message-ID: <000d01be14cc$429382c0$0502000a@main>
Rendered body type: text/plain

You should definitely upgrade to v3.x of Acrobat Reader... too few people
are going to be generating 2.x-compatible PDFs anymore, since 3.0 came out,
what, 24 months ago?

Time to take a trip to http://www.adobe.com

Jeff Brenton, Ham radio call KA9VNV
http://www.espi.com
Questionable web page: http://www.dididahdahdidit.com
Covert supporter of the Vast Right Wing Conspiracy (tm)

7. Re: [MIC-E:1734] mic-e .pdf docs

From: Warren BOUDRIE <wboudrie@rochester.rr.com>
Date: Fri, 20 Nov 1998 16:28:25 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19981120162825.007d2e80@pop-server>
Rendered body type: text/plain

Marc,
I sent a copy to your personal e-mail address. Did not want to burden
everyone on this list to be burdened withe the file download.

  73, Warren AA2LQ

At 02:43 PM 11/20/98 -0600, you wrote:
> Greetings all!
>
> Just wondering if anyone has a working copy of the *.pdf manual for
mic-e. I d/led the one off the tapr site, but after
>displaying the first page, it gives me an error message. Something about
'An unrecognized token 'gs' was found'.
>
> I'm using acrobat reader 2.1 in case that tells anyone anything.
>
>Otherwise, would someone be willing to send me a copy of the original
docs? In ascii if neccesary.
>
> Thanks all!
>
>73! de Marc, VA3DRV.
>Director, Ottawa Amateur Radio Club.
>
>

8. More mic-e stuff

From: Marc Pichette <va3drv@rac.ca>
Date: Fri, 27 Nov 1998 16:07:50 -0500
To: mic-e@tapr.org
Message-ID: <365F14A6.D936B2D5@rac.ca>
Rendered body type: text/plain

Greetings all!

  First I'd like to thank all those that ansered my question re: the .pdf. I d/led acrobat and was able
 to finish off the mic-e.
By the way, this represents the first time I've completed a kit from instructions in purely electronic
form. Worked better than I
thought it would.

  In any case, I did encounter a few problems. I have it working with a tm-v7a. I think on retrospect
I should have used the data
port, but I went with the mike port. Now, the mike only works with the mic-e while the mic-e is plugged
 in (though not necessarily
on). Also, with the truck running, a terrible rf noise is generated, not when its off though. Also,
even with the truck off, I can
hear the rf noise from the gps (built in gps 25). I did look thru some previous posts about these very
problems, but didnt see any
specific info as to how to cure it. I also have a problem where the gps will lose lock, although I
think that may have something to
do with the mic-e being mounted immediately on top of the radio, and the rf is scrambling its brains.
Turning it off for a few
minutes and starting it up again usually cures that problem.

  I can live with having to use the mic-e permanently in line, but I need a solution to the noise
problems. Any ideas?

  I also have an icom 2340 dual bander, which I am using for my aprs radio at the moment, would that be
a more suitable radio for

the mic-e?

  Also, how do you use the msg numbers on the mic-e? How do you program which message number does what and how would you read the
message numbers with winaprs? Does winaprs even support the mic-e that way?

  Also, is there a list of mic-e capable repeaters around somewhere? I know of 2 in Fl, and at least one in Wa. Everywhere else I
know about is RSN (real soo now).

  Anyways, am having a lot fun with it, and am trying to convince some of our local users to the benefits. I'd like to get mine
working properly before I say much else though (grin).

 thanks for your time and 73!

de Marc, VA3DRV.
Director, Ottawa Amateur Radio Club

9. Re: [MIC-E:1738] More mic-e stuff

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 27 Nov 1998 18:47:54 -0600
To: mic-e@tapr.org
Message-ID: <365F483A.862D0765@amsat.org>
Rendered body type: text/plain

Marc Pichette wrote:
...
>   In any case, I did encounter a few problems. I have it working with a tm-v7a. I think on retrospect I should have used the data
> port, but I went with the mike port. Now, the mike only works with the mic-e while the mic-e is plugged in (though not necessarily
> on).

If you want to use the Mic-E in its "standard" configuration, i.e.,
appending a packet to the end of the voice transmission, the the correct
port is the mic port. The data port takes control of the voice port and
interrupts it when a packet is sent to the V7A, contrary to what the
Kenwood Newsletter said.

You can leave the Mic-E in-line and turned off and the radio will
function normally.

...
>   Also, how do you use the msg numbers on the mic-e? How do you program which message number does what and how would you read the
> message numbers with winaprs? Does winaprs even support the mic-e that way?

The message numbers mean what you and the people you communicate decide
they should mean.
--
Ron Parsons
W5RKN

10. 1998 ARRL and TAPR DCC Audio, Photos, Abstracts, and More

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 30 Nov 1998 15:25:13 -0600
To: "HF SIG list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG list   mailing"<aprssig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews, mic-e,
        TAPR Regional Freq <regional_freq@tapr.org>,
        "TAPR-BB list   mailing"<tapr-bb@tapr.org>
Message-ID: <v04020a06b288bb17413f@[128.83.74.104]>
Rendered body type: text/plain

The ARRL and TAPR DCC Web page has been updated to include all recorded
segments from the conference as well as a story and photo section.

Visit: http://www.tapr.org/dcc/

* Listen to sessions from the 1998 ARRL and TAPR DCC over 30 hours covering
        Keynote by Dale Hatfield, W0IFO
                Chief of the FCC's Office of Engineering and Technology
        APRS National Symposium
        Packet Radio Users Group of Japan (PRUG) Technical Seminar
        Technical Paper Presentations

```
        Introductory Sessions
                Introduction to Spread Spectrum
                Introduction to PIC Development
                Introduction to MMDS/LMDS
        Friday Technical Seminar featuring Don Lemke, WB9MJN on
                Infrastructureless Packet Radio Networks
        Sunday Technical Seminars featuring:
                Lyle Johnson, WA7GXD -
                        RUDAK digital communications system
                Tim Shepard, KD1YK  -
                        Packet Radio Networks with Millions or Billions of
Stations


* 1998 Conference Overview Story

* Look at photos from the 1998 ARRL and TAPR DCC

* Review Abstracts from 1998 Proceedings

* Check out past Digital Communication Conferences Audio and Abstracts


as of now, the 1999 ARRL and TAPR DCC will be hosted in Phoenix, AZ in Sept
'99.  More information will be posted once a date and location has been
decided.

-------------------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
-------------------------------------------------------------------------------
e-mail: tapr@tapr.org       web: <http://www.tapr.org/>
ftp:    ftp.tapr.org
phone:  940-383-0000        fax: 940-565-2544
-------------------------------------------------------------------------------
```

December 1998

Original source file: mic-e.9812
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9812

1. Re: [MIC-E:1702] MIC-E digest 344

```
From: "Mike Terry" <pitmet@ctaz.com>
Date: Sun, 22 Feb 1998 12:57:14 -0700
To: <mic-e@tapr.org>
Message-ID: <000901bd3fcc$339430b0$7df8adcf@pitmet>
Rendered body type: text/plain
```

```
Please take off your e-mail list
-----Original Message-----
From: mic-e@tapr.org <mic-e@tapr.org>
To: mic-e <mic-e>
Date: Thursday, July 23, 1998 1:30 PM
Subject: [MIC-E:1702] MIC-E digest 344


>     MIC-E Digest 344
>
>Topics covered in this issue include:
>
>  1) help
> by David Boyle <kr4cn@gte.net>
>
>------------------------------------------------------------------------
>
>Date: Thu, 23 Jul 1998 16:17:40 -0700
>From: David Boyle <kr4cn@gte.net>
>To: mic-e@tapr.org
>Subject: help
>Message-ID: <35B7C494.AB0F7393@gte.net>
>
>Hi,  This is Dave  in Brooksville Fl.  I am trying to interface a Radio
>Shack HTX-202 to a Mic-e. The PTT and Mic are on one line. I,m not too
>sure how this is connected to the Mic-e since it needs a separate line.
>Has anyone interfaced a HTX-202 successfully to a Mic-e? Any help would
>be gratefully accepted!.................73......Dave, kr4cn@gte.net
>
>
>------------------------------
>
>End of MIC-E Digest 344
>**********************
>
```

2. Re: Take me off E-mail list

```
From: "Mike Terry" <pitmet@ctaz.com>
Date: Sun, 22 Feb 1998 13:07:55 -0700
To: <mic-e@tapr.org>
Message-ID: <001001bd3fcd$90e95be0$7df8adcf@pitmet>
Rendered body type: text/plain
```

```
Please don't send me any more E-Mail!!!!!!!!!!!!!!!!!!!
-----Original Message-----
From: mic-e@tapr.org <mic-e@tapr.org>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Monday, November 30, 1998 2:43 PM
Subject: [MIC-E:1740] MIC-E digest 368


>     MIC-E Digest 368
>
>Topics covered in this issue include:
>
>  1) 1998 ARRL and TAPR DCC Audio, Photos, Abstracts, and More
> by "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
>
>------------------------------------------------------------------------
>
>Date: Mon, 30 Nov 1998 15:25:13 -0600
>From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
>To: "HF SIG  list   mailing"<hfsig@tapr.org>, " Spread Spectrum
"<ss@tapr.org>,
>Subject: 1998 ARRL and TAPR DCC Audio, Photos, Abstracts, and More
>Message-ID: <v04020a06b288bb17413f@[128.83.74.104]>
```

>
>The ARRL and TAPR DCC Web page has been updated to include all recorded
>segments from the conference as well as a story and photo section.
>
>Visit: http://www.tapr.org/dcc/
>
>* Listen to sessions from the 1998 ARRL and TAPR DCC over 30 hours
covering
> Keynote by Dale Hatfield, W0IFO
> Chief of the FCC's Office of Engineering and Technology
> APRS National Symposium
> Packet Radio Users Group of Japan (PRUG) Technical Seminar
> Technical Paper Presentations
> Introductory Sessions
> Introduction to Spread Spectrum
> Introduction to PIC Development
> Introduction to MMDS/LMDS
> Friday Technical Seminar featuring Don Lemke, WB9MJN on
> Infrastructureless Packet Radio Networks
> Sunday Technical Seminars featuring:
> Lyle Johnson, WA7GXD -
> RUDAK digital communications system
> Tim Shepard, KD1YK -
> Packet Radio Networks with Millions or Billions of
>Stations
>
>
>* 1998 Conference Overview Story
>
>* Look at photos from the 1998 ARRL and TAPR DCC
>
>* Review Abstracts from 1998 Proceedings
>
>* Check out past Digital Communication Conferences Audio and Abstracts
>
>
>as of now, the 1999 ARRL and TAPR DCC will be hosted in Phoenix, AZ in Sept
>'99. More information will be posted once a date and location has been
>decided.
>
>---
-
>Tucson Amateur Packet Radio
>8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
>---
-
>e-mail: tapr@tapr.org   web: <http://www.tapr.org/>
>ftp: ftp.tapr.org
>phone: 940-383-0000   fax: 940-565-2544
>---
-
>
>
>------------------------------
>
>End of MIC-E Digest 368
>**********************

3. wb2zii mic-e repeater in FN31

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Tue, 15 Dec 98 19:54:59 EST
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.913769699.alan@watsol>
Rendered body type: text/plain

Monday, December 7, 1998, a new APRS "wide" digipeater was installed
at WECA's main repeater site in Valhalla, NY. The digipeater,
operating on 144.39, is running 50 watts into a 5 dBd omnidirectional
antenna at 250 feet up the Bill Knott Memorial Radio Tower. This
digipeater should aid connectivity of local APRS users in Westchester
to our friends in neighboring areas. Local APRS users should change
their UNPROTO digi path to use WB2ZII.

A the same time, an APRS Mic-Encoder (MIC-E) gateway was installed on
the WB2ZII 147.06 voice repeater. This gateway monitors the repeater
voter audio and gateways all decoded packets onto the 144.39 APRS
network using an interconnection to the WB2ZII APRS digipeater. Mobile
users of a GPS receiver in conjunction with the TAPR APRS Mic-Encoder,
Kenwood TH-D7A handheld, or even a conventional TNC when correctly

wired into a microphone circuit, can transmit short packet bursts on
the tail of their voice transmissions. These bursts encode current
geodetic position (latitude and longitude), heading, speed, and
optional additional telemetry such as a canned status message (out of
service, enroute, returning, committed, priority, emergency), battery
voltage, temperature, etc.

APRS automatic vehicle location and telemetry is used in many parts of
the country for tracking resources during public service events and
emergency responses. The WECA MIC-E gateway couples the excellent
coverage of the WB2ZII 2 meter voice repeater system with the mapping
capabilities of the several APRS programs now available for DOS, Mac,
Windows, and Street Atlas USA.

73 de Alan N2YGK

4. Re: Please don't send me any more E-Mail!!!!!!!!!!!!!!!!!!!!

From: "Warren A. Merkel" <warren@clientprofiles.com>
Date: Wed, 16 Dec 1998 10:26:14 -0500
To: mic-e@tapr.org
Message-ID: <MDAEMON-F199812161025.AA251479MD03315@clientprofiles.com>
Rendered body type: text/plain

> Date: Sun, 22 Feb 1998 13:07:55 -0700
> From: "Mike Terry" <pitmet@ctaz.com>
> To: <mic-e@tapr.org>
> Subject: Re: Take me off E-mail list
> Message-ID: <001001bd3fcd$90e95be0$7df8adcf@pitmet>
>
> Please don't send me any more E-Mail!!!!!!!!!!!!!!!!!!!

When you subcribed to this list, you were sent a message that
described how to do this. You should have saved it.

To unsubscribe from this mailing list send a message to
`listserv@tapr.org`
with the following line in the body of the message:

signoff mic-e

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

5. No PTT

From: "Ken Wolfe" <kenwolfe@erols.com>
Date: Wed, 16 Dec 1998 21:44:35 -0500
To: <mic-e@tapr.org>
Message-ID: <000301be2967$304bd900$31d77ad1@laptop>
Rendered body type: text/plain

I can't seem to get the Mic-E to transmit,or hold the PTT after I key the
mic. The fix led is constant red.
The personality dip IS wired correctly, the PTT jumper is on the correct
pins. The radio is an Alinco TM140.
Think the MIM is defective?

Any Thoughts would be appreciated.

Ken Wolfe
N3MQV

6. Re: [MIC-E:1745] No PTT

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 17 Dec 1998 05:35:46 -0600
To: mic-e@tapr.org
Message-ID: <3678EC92.F232D01C@amsat.org>
Rendered body type: text/plain

Can you describe the personality dip and the PTT jumper? Also the wiring
to the radio?

Ron

Ken Wolfe wrote:
>
> I can't seem to get the Mic-E to transmit,or hold the PTT after I key the
> mic. The fix led is constant red.
> The personality dip IS wired correctly, the PTT jumper is on the correct
> pins. The radio is an Alinco TM140.
> Think the MIM is defective?
>
> Any Thoughts would be appreciated.
>
> Ken Wolfe
> N3MQV

--
Ron Parsons
W5RKN

7. Re: [MIC-E:1746] Re: No PTT

From: Ken Wolfe <kenwolfe@erols.com>
Date: Thu, 17 Dec 1998 16:09:23 -0500
To: mic-e@tapr.org
Message-ID: <199812172111.QAA16701@smtp4.erols.com>
Rendered body type: text/plain

At 05:41 AM 12/17/98 -0600, you wrote:
>Can you describe the personality dip and the PTT jumper? Also the wiring
>to the radio?
>
>Ron

Hi Ron,

Ok, here goes: Pin 1 to 16
                    4 to 14
                    5 to 11
                    6 to 12
                    7 to 15

Radio pinout: RJ45 1 = +5v
                    2 = down
                    3 = n/c
                    4 = ptt
                    5 = mic gnd
                    6 = mic
                    7 = gnd
                    8 = up

Ptt jumper <jpc to jpr> #4

all others on <jpc to jpl>

As far as I can tell, this is the correct wiring. The radio keys properly,
and has mic audio.
just no response from the Mic-E.

Thanks for any assistance!

Ken Wolfe
N3MQV
Ken

kenwolfe@erols.com
n3mqv@qsl.net

http://www.qsl.net/n3mqv
NAR# 63600 SR
TRA# 5138

8. Re: [MIC-E:1747] Re: No PTT

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 17 Dec 1998 16:04:17 -0600
To: mic-e@tapr.org
Message-ID: <36797FE1.5D9A6171@amsat.org>

Rendered body type: text/plain

Now I am confused. I thought you said no PTT, which I interpreted as the
radio would not key. When you say "no response from the Mic-E", what
response do you expect that you are not getting? What is the position of
the two rotary switches and the period knob. The auto switch?

Does the Mic-E ever extend the transmission as if it is trying to add a
packet? Do you have a GPS attached? If so, do you have a fix.

Ken Wolfe wrote:
>
> At 05:41 AM 12/17/98 -0600, you wrote:
...
> As far as I can tell, this is the correct wiring. The radio keys properly,
> and has mic audio.
> just no response from the Mic-E.
>
...
Ron Parsons
W5RKN

9. Re: [MIC-E:1747] Re: No PTT

From: Ken Wolfe <kenwolfe@erols.com>
Date: Thu, 17 Dec 1998 17:21:23 -0500
To: mic-e@tapr.org
Message-ID: <199812172224.RAA19077@smtp2.erols.com>
Rendered body type: text/plain

At 03:12 PM 12/17/98 -0600, you wrote:
>At 05:41 AM 12/17/98 -0600, you wrote:
>>Can you describe the personality dip and the PTT jumper? Also the wiring
>>to the radio?
>>
>>Ron
>
>Hi Ron,
>
>
>Ok, here goes: Pin 1 to 16

Well, it seems that the 5 volts available from the microphone was causing a
voltage feedback
thru the PTT circuit, causing it not to key. I switched to a 12 volt
source for the Mic-E, and reconfigured the board for 12 volt operation thru
J1.   Fixed!

Ron, Thanks for the response. (there may be more questions later 8-)

Ken

kenwolfe@erols.com
n3mqv@qsl.net

http://www.qsl.net/n3mqv
NAR# 63600 SR
TRA# 5138

10. Re: [MIC-E:1749] Re: No PTT

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Fri, 18 Dec 1998 06:36:38 -0600
To: mic-e@tapr.org
Message-ID: <367A4C56.E2750FE8@amsat.org>
Rendered body type: text/plain

Good to hear you fixed the problem. If you have further problems, let us
know.

Ron

Ken Wolfe wrote:
> Well, it seems that the 5 volts available from the microphone was causing a
> voltage feedback
> thru the PTT circuit, causing it not to key. I switched to a 12 volt
> source for the Mic-E, and reconfigured the board for 12 volt operation thru

> J1.   Fixed!
>
> Ron, Thanks for the response. (there may be more questions later 8-)
>
> Ken
>
--
Ron Parsons
W5RKN

11. GPS output

From: Ken Wolfe <kenwolfe@erols.com>
Date: Mon, 21 Dec 1998 19:38:02 -0500
To: Mic-E@tapr.org
Message-ID: <199812220040.TAA18697@smtp4.erols.com>
Rendered body type: text/plain

1) Does pin 2 of the serial port of the Mic-E output GPS data?

2) The Garmin 25 seems to be adding a "cyclic" noise to my transmit audio,
which seems to coincide with the cycling of NMEA sentences outputted by the
GPS. Anybody have this problem?, Any ideas?

Thanks in Advance!

Ken

kenwolfe@erols.com
n3mqv@qsl.net

http://www.qsl.net/n3mqv
NAR# 63600 SR
TRA# 5138

12. Re: [MIC-E:1751] GPS output

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 23 Dec 1998 21:22:16 -0600
To: mic-e@tapr.org
Message-ID: <3681B368.24C00DC5@amsat.org>
Rendered body type: text/plain

A quick glance at the schematic shows that with no plug in P1 and the
GPS output connected to NMEA-TTL or NMEA-232 (with JP232 closed), the
GPS data will be on pin 3 of J2. Pin 3 of J2 is also an alternative
INPUT of GPS data if the GPS is not connected to the Mic-E internally.
In this case, put an empty plug in P1.

The "cyclic" noise grom the GPS has been noted before. Don't know if a
solution had been identified. You might search the archive.

Ken Wolfe wrote:
>
> 1) Does pin 2 of the serial port of the Mic-E output GPS data?
>
> 2) The Garmin 25 seems to be adding a "cyclic" noise to my transmit audio,
> which seems to coincide with the cycling of NMEA sentences outputted by the
> GPS. Anybody have this problem?, Any ideas?
>
> Thanks in Advance!
>
> Ken
>
> kenwolfe@erols.com
> n3mqv@qsl.net
>
> http://www.qsl.net/n3mqv
> NAR# 63600 SR
> TRA# 5138

--
Ron Parsons
W5RKN

13. Re: [MIC-E:1752] Re: GPS output

From: Ken Wolfe <kenwolfe@erols.com>
Date: Thu, 24 Dec 1998 12:12:23 -0500
To: mic-e@tapr.org

Message-ID: <199812241716.MAA13930@smtp2.erols.com>
Rendered body type: text/plain

Thanks for your help!
Have a Happy Holiday!

At 09:23 PM 12/23/98 -0600, you wrote:
>A quick glance at the schematic shows that with no plug in P1 and the
>GPS output connected to NMEA-TTL or NMEA-232 (with JP232 closed), the
>GPS data will be on pin 3 of J2. Pin 3 of J2 is also an alternative
>INPUT of GPS data if the GPS is not connected to the Mic-E internally.
>In this case, put an empty plug in P1.
>
>The "cyclic" noise grom the GPS has been noted before. Don't know if a
>solution had been identified. You might search the archive.
>
>Ken Wolfe wrote:
>>
>> 1) Does pin 2 of the serial port of the Mic-E output GPS data?
>>
>> 2) The Garmin 25 seems to be adding a "cyclic" noise to my transmit audio,
>> which seems to coincide with the cycling of NMEA sentences outputted by the
>> GPS. Anybody have this problem?, Any ideas?
>>
>> Thanks in Advance!
>>
>> Ken
>>
>> kenwolfe@erols.com
>> n3mqv@qsl.net
>>
>> http://www.qsl.net/n3mqv
>> NAR# 63600 SR
>> TRA# 5138
>
>--
>Ron Parsons
>W5RKN
>
Ken

kenwolfe@erols.com
n3mqv@qsl.net

http://www.qsl.net/n3mqv
NAR# 63600 SR
TRA# 5138

14. Need Construction Help

From: "Herb Gerhardt" <gerhardt@hctc.com>
Date: Sun, 27 Dec 1998 16:25:30 -0800
To: "list mic-e" <mic-e@tapr.org>
Message-ID: <004f01be31f8$9414e3c0$97a819d0@gerhardt>
Rendered body type: text/plain

Am trying to assemble my first Mic-E unit and am confused. I just subscribed to this list, so if the answer has been previousely posted, please post it again or send it to me personally.

Has somone sucessfully configured this unit to use with an ICOM IC 2340H radio? If so, how do I configure the Personality Header for the IC-2340H?

I also want to use the same unit with an Alinco DR-140 radio? How to do I configure the Personality Header for the Alinco DR-140?

Also, I intend to use the external power jack and power the Mic-E unit from my car battery and use it with an external Garmin GPS-45 or GPS-48, how do I configure all the internal jumpers for this configuration.

I think I can figure out the internal jumpers, but do need some help on the Personality Headers since the way I see it, I need to get my audio from the speaker plugs in the rear of the radio, but if I plug into them, then, my radio speaker is muted and Mic-E will not perform its intended purpose of sending out a packet burst at the end of my transmission.

Any help would be appreciated.

Thanks,

Herb, KB7UVC

Lat/Long 47 26" 05' N / 122 53" 35' W

15. Lou Ruh/SSW/Lotus is out of the office.

From: Lou_Ruh <Lou_Ruh@lotus.ssw.com>
Date: Tue, 29 Dec 1998 01:08:41 -0500
To: mic-e <mic-e@tapr.org>
Message-ID: <11019500033330200000002L502*@MHS>
Rendered body type: text/plain

I will be out of the office from 12/24/98 until 12/31/98.

If this is an urgent issue, please contact Steve Williams (x53256) for any
urgent issues

16. TAPR FTP Site

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 29 Dec 1998 00:57:57 -0600
To: "HF SIG list   mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "APRS SIG list   mailing"<aprssig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " tacgps "<tacgps@tapr.org>, aprsnews, mic-e,
        TAPR Regional Freq <regional_freq@tapr.org>
Cc: "Bill Westradio   Pasternak"<billwa6itf@aol.com>,
        "Len KB7LPW   Winkler"<lenwink@indirect.com>,
        "Hap KC9RP RAIN Holly"<hholly@ais.net>,
        "Greg Jones WD5IVD" <wd5ivd@tapr.org>, "Rich   CQ VHF"<CQVHF@aol.com>,
        "Gagne, Jennifer, N1TDY" <jgagne@arrl.org>,
        "Donald   Rotolo"<73227.2644@compuserve.com>,
        "Stan   Horzepa"<stanzepa@nai.net>,
        " Bob Hansen (TAPR) "<psr@tapr.org>,
        "Ham Radio On-line" <vbook@vbook.com>,
        " Tom McDermott "<mcdermot@eagle.aud.alcatel.com>,
        <rlindquist@arrl.org>, "Brad Smith, KC5SP" <brads@galstar.com>
Message-ID: <v04020a20b2ae2874411e@[207.43.172.66]>
Rendered body type: text/plain

Please be aware that the TAPR FTP site (ftp://ftp.tapr.org) has undergone a
major reorganization as part of the upcoming web site restructuring and
redesign.

If you have links on web pages that reference into our ftp site, please
take a moment to check them and update those URLs to reflect the changes at
our site.

The shallower directory structure should make things easier for individuals
visiting our site to find files and information.

Sorry for any inconvenience this might cause.

Cheers - Greg Jones, WD5IVD
TAPR

The new FTP directory structure:

ftp://ftp.tapr.org
Top Level:
        aprssig/
                WinMacData/
                aprsnews/
                dosstuff/
                        APRSdos/
                        DOSmisc/
                garmin/
                history/
                javastuff/
                linux/
                macstuff/
                        MacAPRS/
                        MacGPS/
                        MacMisc/
                        PacketTracker/
                mail_archive/
                maps/
                        100K_Not_On_CD/
                        MacMaps/

```
                PCMaps/
                WinMacMaps/
        mic-e/
        movies/
        palmstuff/
                palmaprs/
                palmmaps/
                palmmisc/
                palmos/
        presentations/
        shlib/
        upload/
        winstuff/
                APRSPLUS/
                Waypoint/
                WinAPRS/
                WinMisc/

bbssig/
        mail_archive/

das/
        mail_archive/

dcc/

dsp/
        dsp56000/
        dsp56001/
        dsp56002/
        mail_archive/
        psa_sound_card/
        recent_uploads/
        tms320c10/
        tms320c26/
        tms320c50/
        upload/

dsp93/
        Paccomm_eproms/
        diskettes/
        dsp93_eproms/
        mail_archive/
        manuals/
        schems/
        simulators/
        software/
        software.list
        source/
        stlouis.wrkshp.95/
        updates/
        upload/
        util/

general/
        9600baud/
                ALINCO/
                ICOM/
                KENWOOD/
                MOTOROLA/
                YEASU/

gps/
        HPAN52-2/
        garmin/
        motorola/

hfsig/
        mail_archive/

info/
        kits/
        logos/
        publications/

netsig/
        mail_archive/

psr/
```

```
        pub/

        regional_freq/
                mail_archive/

        software_lib/
                DEMOS/
                Linux/
                RF/
                UPLOAD/
                an93/
                bbs/
                dsp/
                gps/
                listing
                misc/
                sat/
                switch/
                tcpip/
                terminal/
                thenet.txt
                tnc/
                utils/
                weather/

        ss/
                mail_archive/
                SS_STA/
                dcc97_ss_seminar/

        tac2/
                mail_archive/

        talnet/

        tapr-bb/
                mail_archive/

        tapr-tnc/
                mail_archive/

        utils/

-----
Greg Jones, WD5IVD                 Austin, Texas
wd5ivd@tapr.org      http://www.tapr.org/~wd5ivd
```

17. JP5 Audio Rolloff?

From: "Theodore A. Antanaitis" <tedant@ixpnet.com>
Date: Tue, 29 Dec 1998 00:13:51 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19981229001351.007c7c20@mail.ixpnet.com>
Rendered body type: text/plain

In reading the MIC-E manual one is advised to leave JP5 in the default position if you don't understand what it does. It goes on to state that if it is repositioned on pins 3 and 4, an additional pole will further roll-off audio above 1600Hz resulting in a tone imbalance of 6 dB.

My questions are:

1) Is this imbalance to compensate for the typical preemphasis found in the audio processing circuitry of FM transmitters?

2) Why would this be desirable? Does this somehow enhance performance thru the RF channel?

3) Consequently, does it not also mean that the AFSK tone levels demodulated at the FM receiver (thru its deemphasis filter) will be unbalanced by 6 dB? What affect will this have on the TNC demodulator?

4) Why would this be preferable in a mobile situation more than fixed operation?

5) Are ther any suggestions on how I should evaluate the performance of my MIC-E with and without this filter to ascertain the impact of it?

Thanks in advance for your responses.

Ted Antanaitis WA7ZZB
email: tedant@ixpnet.com

18. New SIG for the Kenwood THD7A/E

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Wed, 30 Dec 1998 12:57:46 -0600
To: AO16APRS <ao16aprs@tapr.org>, APRS-FL <aprs-fl@tapr.org>,
APRSNEWS
 <aprsnews@tapr.org>, APRSSIG <aprssig@tapr.org>,
BBSSIG
 <bbssig@tapr.org>, DSP sig <dsp@tapr.org>,
HFSIG <hfsig@tapr.org>, HTAPRS <htaprs@tapr.org>,
MIC-E sig <mic-e@tapr.org>, NETSIG
 <netsig@tapr.org>,
PROPNET sig <propnet@tapr.org>,
REGIONAL_FREQ sig
 <regional_freq@tapr.org>, SS sig <ss@tapr.org>,
TACGPS sig
 <tacgps@tapr.org>, TAPR-BB sig <tapr-bb@tapr.org>,
TAPR-TNC
 <tapr-tnc@tapr.org>
Message-ID: <1B66FFC6BE1CD211A0620008C7A42AC21EF760@MRDNEXCH01.ct.adc.com>
Rendered body type: text/plain

TAPR is pleased to announce the formation of a new special
interest group, the HTAPRS SIG.

The purpose of HTAPRS is to provide a forum for the discussion
of issues related to the Kenwood THD7A/E transceiver. (HTAPRS
is also intended to lessen the number of messages on TAPR's
APRSSIG by moving THD7A/E traffic off that SIG.)

To subscribe to the HTAPRS mail list, send email to
listserv@tapr.org with the following text in the body of the
message:

   subscribe htaprs your_first_name your_last_name

January 1999

Original source file: mic-e.9901
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9901

1. Tripmate and MIC-E

```
From: N2AER@aol.com
Date: Wed, 13 Jan 1999 20:34:09 EST
To: mic-e@tapr.org
Cc: aprssig@tapr.org
Message-ID: <2a114014.369d4991@aol.com>
Rendered body type: text/plain
```

Hello:

I recently configured my MIC-E to plug into the Yaesu FT-2500M. I plan to use
a Delorme Tripmate GPS receiver with the MIC-E. Does anybody have experience
connecting the Tripmate to the MIC-E? I am a little puzzled if I need to
short pins 2
and 3 of the Tripmate DB-9 connector to make the Tripmate self initializing or
does
the MIC-E send out the right initialization string?

Thank you

73,

David Bern, N2AER

---

2. Re: [MIC-E:1759] Tripmate and MIC-E

```
From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 13 Jan 1999 21:00:14 -0500
To: <mic-e@tapr.org>
Message-ID: <199901140200.UAA23268@tapr.org>
Rendered body type: text/plain
```

On 1/13/99 8:55 PM N2AER@aol.com (N2AER@aol.com) wrote:

>I recently configured my MIC-E to plug into the Yaesu FT-2500M. I plan to
>use
>a Delorme Tripmate GPS receiver with the MIC-E. Does anybody have experience
>connecting the Tripmate to the MIC-E? I am a little puzzled if I need to
>short pins 2
>and 3 of the Tripmate DB-9 connector to make the Tripmate self
>initializing or
>does
>the MIC-E send out the right initialization string?
>
No, it does not send out the initialization, you must short the pins.

Steve K4HG

---

3. Re: [MIC-E:1759] MIC-E digest 380

```
From: "D. F. Welch" <amersci@flash.net>
Date: Wed, 13 Jan 1999 19:27:35 -0800
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19990113192735.00961100@flash.net>
Rendered body type: text/plain
```

> 1) Tripmate and MIC-E
>   by N2AER@aol.com
>
>--
>
>Date: Wed, 13 Jan 1999 20:34:09 EST
>From: N2AER@aol.com
>To: mic-e@tapr.org
>Cc: aprssig@tapr.org
>Subject: Tripmate and MIC-E
>Message-ID: <2a114014.369d4991@aol.com>
>
>Hello:
>
>I recently configured my MIC-E to plug into the Yaesu FT-2500M. I plan to
use
>a Delorme Tripmate GPS receiver with the MIC-E. Does anybody have experience
>connecting the Tripmate to the MIC-E? I am a little puzzled if I need to
>short pins 2

>and 3 of the Tripmate DB-9 connector to make the Tripmate self
initializing or
>does
>the MIC-E send out the right initialization string?
>
>Thank you
>
>73,
>
>David Bern, N2AER

David,
   Unfortunately the Delorme Tripmate outputs only
Rockwell Binary format and not NMEA format required
by the MIC-E. I know it is not what you want to hear,
but you can purchase a GPS Engine which will work with
the MIC-E from several sources. TAPR has a Motorola
GPS-20 offer for about $170, see the TAPR web site.
Also the Rockwell 12 channel Jupiter board, which is
NMEA capable is available for around $150.00 . If you
are interested in the Rockwell board EMAIL me directly
and I will give you the name of the supplier I use.

73,
Dan Welch
w6dfw@qsl.net

4. Re: [MIC-E:1761] Re: MIC-E digest 380

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 13 Jan 1999 22:39:30 -0500
To: <mic-e@tapr.org>, <amersci@flash.net>
Message-ID: <199901140339.VAA28199@tapr.org>
Rendered body type: text/plain

On 1/13/99 10:31 PM D. F. Welch (amersci@flash.net) wrote:

>David,
>   Unfortunately the Delorme Tripmate outputs only
>Rockwell Binary format and not NMEA format required
>by the MIC-E. I know it is not what you want to hear,
>but you can purchase a GPS Engine which will work with
>the MIC-E from several sources. TAPR has a Motorola
>GPS-20 offer for about $170, see the TAPR web site.
>Also the Rockwell 12 channel Jupiter board, which is
>NMEA capable is available for around $150.00 . If you
>are interested in the Rockwell board EMAIL me directly
>and I will give you the name of the supplier I use.
>
Dan, you are thinking of the newer EarthMate. The TripMate is an older
unit which produces NMEA, and works great with the Mic-E.

Steve K4HG

5. Re: [MIC-E:1761] Re: MIC-E digest 380

From: John/Carol Wilson <wilson_c2@popmail.firn.edu>
Date: Thu, 14 Jan 1999 06:33:45 -0500
To: mic-e@tapr.org
Message-ID: <369DD619.71F7@popmail.firn.edu>
Rendered body type: text/plain

D. F. Welch wrote:
>
> > 1) Tripmate and MIC-E
> >   by N2AER@aol.com
> >
> >--
> >
> >Date: Wed, 13 Jan 1999 20:34:09 EST
> >From: N2AER@aol.com
> >To: mic-e@tapr.org
> >Cc: aprssig@tapr.org
> >Subject: Tripmate and MIC-E
> >Message-ID: <2a114014.369d4991@aol.com>
> >
> >Hello:

> >
> >I recently configured my MIC-E to plug into the Yaesu FT-2500M. I plan to
> use
> >a Delorme Tripmate GPS receiver with the MIC-E. Does anybody have experience
> >connecting the Tripmate to the MIC-E? I am a little puzzled if I need to
> >short pins 2
> >and 3 of the Tripmate DB-9 connector to make the Tripmate self
> initializing or
> >does
> >the MIC-E send out the right initialization string?
> >
> >Thank you
> >
> >73,
> >
> >David Bern, N2AER
>
> David,
>   Unfortunately the Delorme Tripmate outputs only
> Rockwell Binary format and not NMEA format required
> by the MIC-E. I know it is not what you want to hear,
> but you can purchase a GPS Engine which will work with
> the MIC-E from several sources. TAPR has a Motorola
> GPS-20 offer for about $170, see the TAPR web site.
> Also the Rockwell 12 channel Jupiter board, which is
> NMEA capable is available for around $150.00 . If you
> are interested in the Rockwell board EMAIL me directly
> and I will give you the name of the supplier I use.
>
> 73,
> Dan Welch
> w6dfw@qsl.net

The Tripmate does work with the MIC-E, it is the Earthmate that does
not. Both are Delorme products.

There are a few APRS sites that have this information, but I believe you
short pins 2 and 3 (send/receive) so it can see it's own 'ASTRAL'
string, required to start the GPS, and you must tie (correct me if I am
wrong) pin 6 to +5v. Pin 5 is the standard ground pin for DB9
connections.

73,
John, KN4HX

6. Re: [MIC-E:1759] MIC-E digest 380

From: "D. F. Welch" <amersci@flash.net>
Date: Thu, 14 Jan 1999 05:16:19 -0800
To: mic-e@tapr.org
Message-ID: <3.0.1.32.19990114051619.00968b70@flash.net>
Rendered body type: text/plain

> 1) Tripmate and MIC-E
>   by N2AER@aol.com
>
>--
>
>Date: Wed, 13 Jan 1999 20:34:09 EST
>From: N2AER@aol.com
>To: mic-e@tapr.org
>Cc: aprssig@tapr.org
>Subject: Tripmate and MIC-E
>Message-ID: <2a114014.369d4991@aol.com>

   David, I stand corrected, The Tripmate is fine with
the MIC-E it is the EARTHMATE which I was thinking of
Sorry for the mistake.

-w6dfw

TO BE CORRECT, AND NON-RELEVANT, MY COMMENT SHOULD READ:
   Unfortunately the Delorme EARTHMATE! outputs only
Rockwell Binary format and not NMEA format required
by the MIC-E. I know it is not what you want to hear,
but you can purchase a GPS Engine which will work with
the MIC-E from several sources. TAPR has a Motorola
GPS-20 offer for about $170, see the TAPR web site.
Also the Rockwell 12 channel Jupiter board, which is

NMEA capable is available for around $150.00 . If you
are interested in the Rockwell board EMAIL me directly
and I will give you the name of the supplier I use.

73,
Dan Welch
w6dfw@qsl.net

7. Re: [MIC-E:1757] JP5 Audio Rolloff?

From: "Theodore A. Antanaitis" <tedant@ixpnet.com>
Date: Thu, 14 Jan 1999 16:30:00 -0500
To: mic-e@tapr.org
Message-ID: <3.0.5.32.19990114163000.007c7be0@mail.ixpnet.com>
Rendered body type: text/plain

To MIC-E sig members:

I posted the questions below to the MIC-Esig about two weeks ago and have
not seen any responses.

If no one on the sig can help, is there someone off sig I can direct them to?

Any answers would be welcome, even "dunno" or haven't had time yet or too
complex to figure out.

Tnx for the bandwidth,
WA7ZZB

In reading the MIC-E manual one is advised to leave JP5 in the default
position if you don't understand what it does. It goes on to state that if
it is repositioned on pins 3 and 4, an additional pole will further
roll-off audio above 1600Hz resulting in a tone imbalance of 6 dB.

My questions are:

1) Is this imbalance to compensate for the typical preemphasis found in the
audio processing circuitry of FM transmitters?

2) Why would this be desirable? Does this somehow enhance performance thru
the RF channel?

3) Consequently, does it not also mean that the AFSK tone levels
demodulated at the FM receiver (thru its deemphasis filter) will be
unbalanced by 6 dB? What affect will this have on the TNC demodulator?

4) Why would this be preferable in a mobile situation more than fixed
operation?

5) Are ther any suggestions on how I should evaluate the performance of my
MIC-E with and without this filter to ascertain the impact of it?

Thanks in advance for your responses.

Ted Antanaitis WA7ZZB
email: tedant@ixpnet.com

8. Re: [MIC-E:1765] Re: JP5 Audio Rolloff?

From: "Herb" <gerhardt@hctc.com>
Date: Thu, 14 Jan 1999 18:00:49 -0800
To: <mic-e@tapr.org>
Message-ID: <005001be402a$e057b100$78a819d0@oemcomputer>
Rendered body type: text/plain

Ted,

Sorry but I don't know. I also got a Mic-E for Xmas and still have not got
it working. Of course it is not on top of my priority list but it is really
frustrating trying to figure out what to do with the instructions in that
manual.

That has to be the poorest manual I have ever read! I too put a notice on
this sig to try to get help for my radio config and got not replies. I sent
a copy to Bob Bruninga and he did answer me with a general comment that we
can not write the manual for all radios or configurations, you will have to
figure it out.

It is unfortunate that we that hams and users of Mic-E don't share info
better. I think everyone get so frustrated putting it together that once
they get it to work, they don't want to share their info. It's too bad but
I guess that is the way it goes.

Good luck. I am sure I will get mine going but I did not count on all the
frustration it would give me to build it.

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W
-----Original Message-----
From: Theodore A. Antanaitis <tedant@ixpnet.com>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Thursday, January 14, 1999 4:44 PM
Subject: [MIC-E:1765] Re: JP5 Audio Rolloff?

>To MIC-E sig members:
>
>I posted the questions below to the MIC-Esig about two weeks ago and have
>not seen any responses.
>
>If no one on the sig can help, is there someone off sig I can direct them
to?
>
>Any answers would be welcome, even "dunno" or haven't had time yet or too
>complex to figure out.
>
>Tnx for the bandwidth,
>WA7ZZB
>
>In reading the MIC-E manual one is advised to leave JP5 in the default
>position if you don't understand what it does. It goes on to state that if
>it is repositioned on pins 3 and 4, an additional pole will further
>roll-off audio above 1600Hz resulting in a tone imbalance of 6 dB.
>
>My questions are:
>
>1) Is this imbalance to compensate for the typical preemphasis found in the
>audio processing circuitry of FM transmitters?
>
>2) Why would this be desirable? Does this somehow enhance performance thru
>the RF channel?
>
>3) Consequently, does it not also mean that the AFSK tone levels
>demodulated at the FM receiver (thru its deemphasis filter) will be
>unbalanced by 6 dB? What affect will this have on the TNC demodulator?
>
>4) Why would this be preferable in a mobile situation more than fixed
>operation?
>
>5) Are ther any suggestions on how I should evaluate the performance of my
>MIC-E with and without this filter to ascertain the impact of it?
>
>Thanks in advance for your responses.
>
>Ted Antanaitis WA7ZZB
>email: tedant@ixpnet.com
>

9. Re: [MIC-E:1766] Re: JP5 Audio Rolloff?

From: George Carr <semcor@telebyte.com>
Date: Fri, 15 Jan 1999 07:59:11 -0800
To: mic-e@tapr.org
Message-ID: <369F65CF.F43544F1@telebyte.com>
Rendered body type: text/plain

I told you to call me and bring it over to my work place.

No sniveling. :=)

George, N7GME

Herb wrote:

> Ted,
>
> Sorry but I don't know. I also got a Mic-E for Xmas and still have not got

> it working. Of course it is not on top of my priority list but it is really
> frustrating trying to figure out what to do with the instructions in that
> manual.
>
> That has to be the poorest manual I have ever read! I too put a notice on
> this sig to try to get help for my radio config and got not replies. I sent
> a copy to Bob Bruninga and he did answer me with a general comment that we
> can not write the manual for all radios or configurations, you will have to
> figure it out.
>
> It is unfortunate that we that hams and users of Mic-E don't share info
> better. I think everyone get so frustrated putting it together that once
> they get it to work, they don't want to share their info. It's too bad but
> I guess that is the way it goes.
>
> Good luck. I am sure I will get mine going but I did not count on all the
> frustration it would give me to build it.
>
> Herb, KB7UVC
> Lat/Long 47 26' 05" N / 122 53' 35" W
> -----Original Message-----
> From: Theodore A. Antanaitis <tedant@ixpnet.com>
> To: mic-e@tapr.org <mic-e@tapr.org>
> Date: Thursday, January 14, 1999 4:44 PM
> Subject: [MIC-E:1765] Re: JP5 Audio Rolloff?
>
> >To MIC-E sig members:
> >
> >I posted the questions below to the MIC-Esig about two weeks ago and have
> >not seen any responses.
> >
> >If no one on the sig can help, is there someone off sig I can direct them
> to?
> >
> >Any answers would be welcome, even "dunno" or haven't had time yet or too
> >complex to figure out.
> >
> >Tnx for the bandwidth,
> >WA7ZZB
> >
> >In reading the MIC-E manual one is advised to leave JP5 in the default
> >position if you don't understand what it does. It goes on to state that if
> >it is repositioned on pins 3 and 4, an additional pole will further
> >roll-off audio above 1600Hz resulting in a tone imbalance of 6 dB.
> >
> >My questions are:
> >
> >1) Is this imbalance to compensate for the typical preemphasis found in the
> >audio processing circuitry of FM transmitters?
> >
> >2) Why would this be desirable? Does this somehow enhance performance thru
> >the RF channel?
> >
> >3) Consequently, does it not also mean that the AFSK tone levels
> >demodulated at the FM receiver (thru its deemphasis filter) will be
> >unbalanced by 6 dB? What affect will this have on the TNC demodulator?
> >
> >4) Why would this be preferable in a mobile situation more than fixed
> >operation?
> >
> >5) Are ther any suggestions on how I should evaluate the performance of my
> >MIC-E with and without this filter to ascertain the impact of it?
> >
> >Thanks in advance for your responses.
> >
> >Ted Antanaitis WA7ZZB
> >email: tedant@ixpnet.com
> >

10. Tripmate and MIC-E -- continued

From: N2AER@aol.com
Date: Mon, 18 Jan 1999 13:35:01 EST
To: mconner@null.net
Cc: aprssig@tapr.org, mic-e@tapr.org, N2AER@aol.com
Message-ID: <7caeb434.36a37ed5@aol.com>
Rendered body type: text/plain

In a message dated 1/18/99, 1:27:01 AM, mconner@null.net writes:
<<I know I need to tie pins 2 and 3 together in order for the Tripmate to

hear its own "ASTRAL" string. Do I need to do something with pin 4 to
bring DTR high, and what's the best way to do that?
>>

I am experimenting with using a Tripmate with my MIC-E. DTR needs to be
asserted.
The easiest way to do that is to tie pin 4 to a voltage greater than +3V. The
way I
do that is to tie pin 4 to pin 9. Pin 9 is used for power which leads to the
center pin
of the internal 3-pin connector. I was real pleased to discover that the
Tripmate is
happy with 4.5 V that is available from the microphone connector of my Yaesu
FT-2500M when the Yaesu is connected to a 12V (11 V nominal) battery.

The only pain that I discovered, is that after five to eight minutes after the
Tripmate
appears to get a fix, I need to disconnect pin 3 from pin 2 to get the MIC-E
PWR/FIX
LED to start blinking once a second. Pin 2 is connected the GPS input (ring)
of the
miniature phone jack; the tip is not used. I also discovered that momentarily
disconnecting pin 3 also works. I discovered this yesterday and I plan to
test with
a SPDT switch to see how it works out.

Hope this helps.

73,
David Bern

11. EPROM Programing Problems

From: "Herb" <gerhardt@hctc.com>
Date: Tue, 19 Jan 1999 20:17:40 -0800
To: "list mic-e" <mic-e@tapr.org>
Cc: "George N7GME, Carr" <semcor@telebyte.com>,
        "David K7GPS, Dobbins" <ddobbins@Localaccess.com>,
        "Bob K7OFT, King" <clamgut@gte.net>,
        "Doug K7IP, Wetzel" <dwetzel@earthlink.net>,
        "Bob Bruninga" <bruninga@nadn.navy.mil>, "tapr" <tapr@tapr.org>
Message-ID: <000d01be442b$d2dc7ba0$91a819d0@oemcomputer>
Rendered body type: text/plain

I have been having some programing problems with my Mic-E Encoder. I wonder if anyone has seen similar
problems and what they did to fix them.

When I program my Mic-E Encoder I am having a problem with the VIA and the BTEXT entries. All the other
 entries seem to stay stabil. When I enter the via entry and/or the btext entry, either one or both of
them seem to change randomly after performing the perm command.

Even when I finally get a display I can live with and close the program and secure the power to my
Mic-E, then turn on the power to my Mic-E and restart the program, I do not always get the same
information in the via and btext registers. The btext usually just disappears to " " or picks up some
of the characters that were lost in the via register. At times I get graphics characters in both the
via and/or the btext registers.

This problem seems to indicate to me that there is a problem with the EPROM in my Mic-E Encoder. Has
anyone enountered this problem before? How can it be resolved.

If I can not get some sort of resolution by this posting, I am inclined to return my Mic-E Encoder for
replacement since this one appears to be defective.

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W

12. Re: EPROM Programing Problems

From: "Darrell R. Hale" <halehome@home.com>
Date: Wed, 20 Jan 1999 00:05:12 -0500
To: mic-e@tapr.org
Message-ID: <2.2.32.19990120050512.0098c9f8@mail>
Rendered body type: text/plain

>This problem seems to indicate to me that there is a problem with the =
>EPROM in my Mic-E Encoder. Has anyone enountered this problem before? =
>How can it be resolved.

I don't know what the read/write cycle on the EEPROM is inside the PIC, but....
have you made many updates to this unit before (ie: hundereds or thousands)
before the problem started, or is this basically a new unit that has never

worked properly?

13. Re: [MIC-E:1770] Re: EPROM Programing Problems

From: "Herb" <gerhardt@hctc.com>
Date: Tue, 19 Jan 1999 21:30:49 -0800
To: <halehome@home.com>
Cc: "list mic-e" <mic-e@tapr.org>
Message-ID: <004801be4436$0aa41200$91a819d0@oemcomputer>
Rendered body type: text/plain

It is a brand new unit that I am trying to get configured for the first time. I have maybe made 30 perm evolutions with varying results. This problem has been there since the first day I tried to program it.

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W
-----Original Message-----
From: Darrell R. Hale <halehome@home.com>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Tuesday, January 19, 1999 9:10 PM
Subject: [MIC-E:1770] Re: EPROM Programing Problems

>
>>This problem seems to indicate to me that there is a problem with the =
>>EPROM in my Mic-E Encoder. Has anyone enountered this problem before? =
>>How can it be resolved.
>
>I don't know what the read/write cycle on the EEPROM is inside the PIC, but....
>have you made many updates to this unit before (ie: hundereds or thousands)
>before the problem started, or is this basically a new unit that has never
>worked properly?
>
>

14. Mic-E/Oncore/Yaesu newbie problems

From: wordy@qualcomm.com (Steven K. Roberts)
Date: Wed, 20 Jan 1999 00:02:59 -0800
To: mic-e@tapr.org
Message-ID: <v02130504b2cb39b2e315@[204.94.54.53]>
Rendered body type: text/plain

Hi folks...

I'm new to this list, and to the Mic-E, so please forgive me if the following has recently been exhaustively addressed. I did browse the web archives and found a number of recurring themes (time for a manual update???), but I'm still experiencing a couple of startup woes.

Most notably, the VP Oncore behaves fine with the Motorola development-kit software in binary mode. To move it to the new Mic-E, I've been setting it up for 1-second updates, then typing "ioformat 1" and immediately quitting the Motorola program. I then solder it into the Mic-E, jumpered for internal GPS as far as I can tell, whereupon it just sits there forever, with yellow PWR/FIX LED glowing steadily and no data traffic on the TTL serial output from the GPS. And it's a heckuva pain to get it back to Motorola binary mode to verify basic operation and try again!

I had a theory for a while that the Oncore's battery was shot (three units were donated to the Microship project by Motorola, and have been sitting in a box for about 3 years). But the almanac and other setup data survive the transfers and soldering abuse just fine, so I doubt that's it. So how do I tickle the thing into operation???

The second problem, which I know has been exhaustively discussed as far back as 97 with an unclear final resolution (at least from my browsing perspective) but for a massive hex-format bitmap dump in the middle of otherwise-readable message archives, is the problem of the PTT being continuously invoked when Mic-E power is off. Could you folks point me to the solution to this (a diode addition, apparently)? I'm using a Yaesu 290, and both the passive pass-through and period-twiddling tests work fine.

I'm also a bit unclear on the path and msg switches, though obviously I haven't had a chance to experiment yet -- can we just set this up with the new path shorthand, or is that not possible? Is there a recommended "standard" setup for the PIC programming as well as the switch positions?

The latter is probably a dead giveaway "APRS newbie" question... but hey...
that's me!

Cheers and thanks very much for any advice... I'm hoping to have this fired
up by this weekend to hang out with the NWAPRS group in Longview, but the
real motive is to carry a tracker on the Microship test voyage in April. I
welcome any input, including hands-on, from folks in the Pacific Northwest!
We also post email updates (to a filtered, zero-noise mailing list) on the
whole crazy project every month or two -- I'd be happy to add anyone
interested.

73 es tnx,
Steve Roberts N4RVE
<http://www.microship.com>
(BEHEMOTH and Microship adventures)

15. Re: [MIC-E:1772] newbie problems, more info

From: wordy@qualcomm.com (Steven K. Roberts)
Date: Wed, 20 Jan 1999 01:05:26 -0800
To: mic-e@tapr.org
Message-ID: <v02130505b2cb4bd82695@[204.94.54.53]>
Rendered body type: text/plain

Hi...

Apologies for the second message; just thought I'd add two data points...

First, the 1 PPS output from the Oncore is working.

Second, I've been quite unable to get it to talk to any terminal program in
NMEA mode (4800 N81), so the problem seems quite clearly to be occurring
in the Oncore, not the Mic-E. The only operation I've been able to observe
is in the Motorola development unit with their controller code.

What utterly obvious thing am I failing to tell it?

Thanks again, and sorry for the noise of 2 posts...

Steve N4RVE

16. Re: [MIC-E:1773] Re: newbie problems, more info

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Wed, 20 Jan 1999 07:08:54 -0600
To: mic-e@tapr.org
Message-ID: <36A5D566.E6BA9400@realtime.net>
Rendered body type: text/plain

First I'd try to solve the problem of not being able to see output at
4800 8N1 on a terminal. Put a scope on the serial output and see if you
see data. Is it 0V-5V or RS-232? Could be a problem with levels and your
serial port. Did you configure the Mic-E for TTL or 232 GPS input?

Initially just set the switches to AUTO and the others to 0. Won't
matter until the GPS is working. Can you force a transmission by
rotating the Period pot back and forth.

I send you the update to fix the PTT with power-off problem.

Ron

"Steven K. Roberts" wrote:
>
> Hi...
>
> Apologies for the second message; just thought I'd add two data points...
>
> First, the 1 PPS output from the Oncore is working.
>
> Second, I've been quite unable to get it to talk to any terminal program in
> NMEA mode (4800 N81), so the problem seems quite clearly to be occurring
> in the Oncore, not the Mic-E. The only operation I've been able to observe
> is in the Motorola development unit with their controller code.
>
> What utterly obvious thing am I failing to tell it?
>
> Thanks again, and sorry for the noise of 2 posts...
>
> Steve N4RVE

```
--
Ron Parsons
W5RKN
```

17. Re: [MIC-E:1771] Re: EPROM Programing Problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Jan 1999 10:17:45 -0500 (EST)
To: Herb <gerhardt@hctc.com>
Cc: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901201014440.10417-100000@arctic>
Rendered body type: text/plain

```
It sounds like maybe a bad EEProm.  I wonder if you could try it with a
different pattern in the BText.  (Maybe you already did).  But it could be
conceivable that some character in the BText or other field is looking
like some other paramater during load from EEprom.  Just a guess..

But I do recall once instance of a single character in a single location
causing someone else some problems.  As soon as he changed his BText, it
went away.?  SPooky...

bob
```

18. Re: [MIC-E:1772] Mic-E/Oncore/Yaesu newbie problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Jan 1999 10:49:05 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901201025060.10417-100000@arctic>
Rendered body type: text/plain

```
On Wed, 20 Jan 1999, Steven K. Roberts the Experimenter Extroidinare and
his MicroShip asked some good questions:

> I'm also a bit unclear on the path and msg switches...  Is there a
> recommended "standard" setup for the PIC programming as well as the
> switch positions?

I think all digipeaters in Washington State are now WIDEn-N capable and so
(my best guess is that) the best programming path is

  VIA RELAY,WIDE2-2,NONE,WIDE4-4

The Mic-E PATH switch then would equate to

  0 = none                <= no digipeaters
  1 = RELAY               <= any APRS asset will digipeat you
  2 = RELAY,WIDE2-2       <= any aprs asset will digi u to 2 more digis
  3 = RELAY,WIDE2-2,NONE  <= you wouldnt use this one
  4 = WIDE4-4             <= Assumes you can hit a digi direct and then
                             it goes 4 hops (most of the state)

Notice how this is not like a noremal TNC.  Even though it can be a list
of 7 digipeaters, it is in reality interpreted as two independent lists.
For entries of 1 to 3, it uses the first three entries.  For entries 4 and
above, it begins all over again.  THis was so you could have two options
for the starting digi (Used to be RELAY and WIDE)

For areas of the country that dont have WIDEn-N digipeaters, then my
recommendation used to be:

  RELAY,WIDE,WIDE,WIDE,WIDE,WIDE,WIDE

  so you could select  1 = RELAY
                       2 = RELAY,WIDE
                       3 = RELAY,WIDE,WIDE
                       4 = WIDE
                       5 = WIDE,WIDE
                       6 = WIDE,WIDE,WIDE
                       7 = WIDE,WIDE,WIDE,WIDE

You can see the advantge of the single WIDE4-4 in Washington state, it
makes the packets 21 bytes shorter for a path of 4 hops...  Since the
Mic-E format is only 24 bytes long without digis, this is significant.
k
```

19. Re: [MIC-E:1776] Re: Mic-E/Oncore/Yaesu newbie problems

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 20 Jan 99 11:03:27 EST

To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.916848207.alan@watsol>
Rendered body type: text/plain

Is there current protocol documentation regarding WIDEN-N? When did it change
from WIDE-N? Is there a difference? Is there a list of TNC ROMs that
implement WIDEN-N? Mic-E SSID expansion?
73
/a

20. Re: [MIC-E:1777] Re: Mic-E/Oncore/Yaesu newbie problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Wed, 20 Jan 1999 11:31:19 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901201120010.10417-100000@arctic>
Rendered body type: text/plain

On Wed, 20 Jan 1999, Alan Crosswell wrote:

> Is there current protocol documentation regarding WIDEN-N? When did
> it change from WIDE-N? Is there a difference? Is there a list of TNC
> ROMs that implement WIDEN-N? Mic-E SSID expansion?

About 3 or so years ago it changed from WIDE-N to WIDEn-N so that when the
packet arrives as a -0, the recepient can tell how many hops it took to
get there. This is documented in the APRSdos README\DIGIS.TXT file.

The great boost to this concept came when Kantronics finally implemented
it in a real digipeater.

Now both the Mic-E and the THD7 are both capable of the next step in APRS
generic routing, and that is SSID only routing. All we need is some
digipeaters who have implemented it to make that a reality. This saves 7
more bytes and a Mic-E or THD7 packet will be only about 23 bytes long
even if it is going 5 or more hops! This is a tremendous factor of 5
savings compared to the current 120 bytes or so required for a 5 hop path
and conventional NMEA posit.

(Meaning we can support lots of growth and still stay on 2 meters
at 1200 baud. Of course, this is not to say that we are short-sighted on
1200 baud, we forsee lots of 9600 baud for linking the Internet APRServe
system to mobiles, but that will always be on a different channel)..

 bob, WB4APR

21. Re: [MIC-E:1773] Re: newbie problems, more info

From: Steve Dimse <sdimse@netrox.net>
Date: Wed, 20 Jan 1999 11:41:52 -0500
To: <mic-e@tapr.org>
Message-ID: <199901201643.LAA09211@netrox.net>
Rendered body type: text/plain

On 1/20/99 4:10 AM Steven K. Roberts (wordy@qualcomm.com) wrote:

>Second, I've been quite unable to get it to talk to any terminal program in
>NMEA mode (4800 N81), so the problem seems quite clearly to be occurring
>in the Oncore, not the Mic-E. The only operation I've been able to observe
>is in the Motorola development unit with their controller code.
>
>What utterly obvious thing am I failing to tell it?
>
You said you were working in Motorola Binary mode...did you set it to
NMEA before you installed it? The Mic-E can't handle binary...

Steve

22. Re: [MIC-E:1778] Re: Mic-E/Oncore/Yaesu newbie problems

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Wed, 20 Jan 99 11:52:36 EST
To: mic-e@tapr.org
Message-ID: <CMM.0.90.4.916851156.alan@watsol>
Rendered body type: text/plain

OK, thanks for bringing me back up to date. Signal-to-Noise ratio and all
that....

I'll update Linux aprsdigi to correctly implement WIDEN-N. It already
does the Mic-E SSID routing (for all three flavors of Mic-E: two betas
and a production model and I will shortly test with TH-D7). But of

course, a turnkey EPROM for a TNC2 would help a lot more than some
PC-based solution, especially for sites that can't/don't want to run a
PC where they've got just a TNC now.

Wouldn't ya know it the one week Ralph de Big Shanty is in town with
his D7 (before he broke it:-) our Mic-E repeater gateway/digi had to
be down since the antenna was needed for the backup transmitter for
the 2m repeater which burned up....

73 de Alan N2YGK

> About 3 or so years ago it changed from WIDE-N to WIDEn-N so that when the
> packet arrives as a -0, the recepient can tell how many hops it took to
> get there. This is documented in the APRSdos README\DIGIS.TXT file.
>
> The great boost to this concept came when Kantronics finally implemented
> it in a real digipeater.
>
> Now both the Mic-E and the THD7 are both capable of the next step in APRS
> generic routing, and that is SSID only routing. All we need is some
> digipeaters who have implemented it to make that a reality. This saves 7
> more bytes and a Mic-E or THD7 packet will be only about 23 bytes long
> even if it is going 5 or more hops! This is a tremendous factor of 5
> savings compared to the current 120 bytes or so required for a 5 hop path
> and conventional NMEA posit.
>
> (Meaning we can support lots of growth and still stay on 2 meters
> at 1200 baud. Of course, this is not to say that we are short-sighted on
> 1200 baud, we forsee lots of 9600 baud for linking the Internet APRServe
> system to mobiles, but that will always be on a different channel)..
>
> bob, WB4APR
>
>

23. Re: [MIC-E:1772] Mic-E/Oncore/Yaesu newbie problems

From: wordy@qualcomm.com (Steven K. Roberts)
Date: Wed, 20 Jan 1999 19:16:51 -0800
To: mic-e@tapr.org
Message-ID: <v02130509b2cc4635f971@[204.94.54.53]>
Rendered body type: text/plain

Hi...

Thanks for the various replies to my post on the list -- and thanks, W5RKN,
for the image attachments detailing the power-off PTT fix... I'll make the
required change.

As to my GPS problem...

Ron Parsons wrote:

>First I'd try to solve the problem of not being able to see output at
>4800 8N1 on a terminal. Put a scope on the serial output and see if you
>see data. Is it 0V-5V or RS-232? Could be a problem with levels and your
>serial port. Did you configure the Mic-E for TTL or 232 GPS input?

And Steve Dimse wrote:

>You said you were working in Motorola Binary mode...did you set it to
>NMEA before you installed it? The Mic-E can't handle binary...

We're not that far, alas... the problem is cleary in the Oncore (or the
setup thereof, which is more likely). Here's the complete and repeatable
scenario:

1 - GPS works perfectly on the bench in Motorola binary format, using
Motorola controller software. Set to 1-second updates, it does everything
it should, passes self-tests, shows 3D fix, etc. For this test, it's in
the Motorola development kit motherboard, which powers the unit and
provides TTL<->RS232 conversion.

2 - I issue the "ioformat 1" command to switch to NMEA mode. As expected,
it stops issuing updates to the screen, and accepts no further commands
from the Motorola software.

3 - I look at the serial out with a scope, both at the RS-232 port and at
the 10-pin connector on the Oncore board... nothing.

4 - I run communications software (4800 N81) and try to talk to it... no
echo or response of any kind, including attempts to start reporting with
"$PMOTG,GLL,0001". I can see my own data on pin 9 of the interface, but
pin 8 never outputs so much as a peep. (Note that in this "reduced" case,
there has not even been a power cycle of the Oncore, eliminating any
suspicion about forgetting the mode due to an old backup battery.)

5 - I revert to the Motoloa binary software, which requires the long
initialization to regain control of the board (as expected). At this
point, it's working fine again.

So, the question is this: is there some incantation that is not
(apparently) documented which must be issued to the Oncore before switching
to NMEA mode?

Thanks and cheers! Just got my TAPR membership today, along with the
Spread-Spectrum book. Nice to be aboard.

73,
Steve

Steven K. Roberts, N4RVE   Nomadic Research Labs
wordy@qualcomm.com   http://www.microship.com
Physical location: Camano Island, WA
                                48d 10' N   122d 30' 45" W

Activities of the moment (updated 1/15/99 12:00): Building rudder-control
pods and working on Motorola embedded GPS prior to integrating with MicE
for tracking system.

Send a note to receive sorta-monthly email Microship updates...
---

24. Re: [MIC-E:1781] Re: Mic-E/Oncore/Yaesu newbie problems

From: Steve Dimse <sdimse@netrox.net>
Date: Wed, 20 Jan 1999 22:29:49 -0500
To: <mic-e@tapr.org>
Message-ID: <199901210330.WAA00203@netrox.net>
Rendered body type: text/plain

On 1/20/99 10:21 PM Steven K. Roberts (wordy@qualcomm.com) wrote:

>So, the question is this: is there some incantation that is not
>(apparently) documented which must be issued to the Oncore before switching
>to NMEA mode?
>
Probably, but I don't know what it would be. I rely on a program called
TAC32 to do the switch. It can be downloaded from
http://www.cnssys.com/tac32/

MacAPRS and WinAPRS also have the capabilty to switch modes, you probably
already have one of these handy...

Steve K4HG

25. Re: [MIC-E:1782] Re: Mic-E/Oncore/Yaesu newbie problems

From: wordy@qualcomm.com (Steven K. Roberts)
Date: Wed, 20 Jan 1999 20:11:17 -0800
To: mic-e@tapr.org
Message-ID: <v0213050fb2cc53d42cd6@[204.94.54.53]>
Rendered body type: text/plain

Ohhh, this is weird.... I just found this at
http://www.mot.com/ACCES/GPS/gpsfaq.html#nmea

>By default, the Oncore GPS receivers are in Motorola binary
>communications mode at a baud rate of 9600. In order to switch the
>receiver to the NMEA mode at 4800 baud, the Switch To NMEA
>command must be sent. The evaluation kit software or a custom
>application can issue this command. Once the command is sent, the
>Oncore GPS receiver switches the communications port to 4800 baud and
>awaits instructions. By default, no NMEA messages are selected for
>output. Using a terminal application or with the custom software, any
>one of the seven supported NMEA messages can be requested at a user
>selected output rate. For more information, download the NMEA
>Application Note

That appnote is a pdf at http://www.mot.com/ACCES/GPS/pdfs/nmea.pdf

The scary part is that "no NMEA messages are selected for output"
comment... this would imply that to use an Oncore in a Mic-E, you have to
first pass it through an intermediate setup step with a comm package, not
just put 'er into NMEA and install in the Mice.

Of course, I've tried the recommended procedure -- they emphasize in the
appnote that CRLF translation is necessary (must be a timing thing), and
give the $PMOTG,GGA,1<CRLF> command as an example. It is case sensitive.
But it doesn't work here anyway <sigh>. (Incidentally, the appnote sez the
command "ioformat nmea" works -- a less-cryptic alternative to the
"ioformat 1" I've been using. They're both equally inoperative here.)

Further thoughts, of course, are welcome. I'm about to violate debugging
policy and try another new one outta the box before I understand what's
wrong with this one...

K4GH wrote:

>MacAPRS and WinAPRS also have the capabilty to switch modes, you probably
>already have one of these handy...

Ahhh, then maybe Keith would know...   ping wu2z....

Steve Roberts, N4RVE

26. Re: EPROM Programing Problems

From: "Herb" <gerhardt@hctc.com>
Date: Wed, 20 Jan 1999 20:46:42 -0800
To: "PacComm" <rparsons@paccomm.com>, "list mic-e" <mic-e@tapr.org>
Cc: "Bob K7OFT, King" <clamgut@gte.net>,
        "Bob Bruninga" <bruninga@nadn.navy.mil>,
        "Ronald G. Parsons" <rparsons@realtime.net>,
        "Doug K7IP, Wetzel" <dwetzel@earthlink.net>,
        "David K7GPS, Dobbins" <ddobbins@Localaccess.com>
Message-ID: <009701be44f9$0ba10500$92a819d0@oemcomputer>
Rendered body type: text/plain

Thanks to all that replied to my Eprom Mic-E problem. I am answering the
received questions in one message so that everyone will be up to speed on
the various thoughts on my problem.

First of all I have done a visual of all the soldering on the board and all
looks SAT.

My unit is brand new and has only had around 30 to 40 PERM's. From my
understanding Eproms have a live expectancy of over 1000 perms, so I would
rule out that I may have exceeded the life expectancy.

My Eprom has a paper sticker on it that reads MIC 107 and the supplied
software disc also is for MIC 107, so that is OK. My Eprom has a
manufacturers part number of PIC 16C73A-20I/SP.

Yes, I am in MIC-E mode and not in MIM mode.

Yes, I have tried many different BText entries with the same results.
However, I have discovered that the VIA entry is what causes the problem.
If I enter only 4 paths into via, both the via entries and my BText entries
remain unchanged. However, if I enter more than 4 then my problems start.
After the Perm, and if I have more than 4 via entries, the via entries and
the BText seem to be unstable and change everytime I back out of the program
and then go back into the program, I get different abnormalities in the VIA
and BText registers. I do not make any changes or any further Perms, all I
do is back out of the program and go back into the program on my laptop and
the information comes up differet in these two registers.

Presently I made only 4 VIA enties (RELAY,WIDE5-6,WIDE,GATE) and my BText
entry (KB7UVC-14 Herb's Mic-E Tracker) and things remain stabil when I
secure the program and the Mic-E power and restart it again, all entries
remain as they were the last time. I am testing the unit in this
configuration and so far it seems to be operating OK.

The way I see it right now, it is still an Eprom problem. It appears that
when more than 4 entries are made into the VIA register it overflows into
the BText register and anything goes including graphics characters and they
keep changing everytime the unit is brought up again.

I think I have answered all the questions that were asked of me in regards to my problem. Hopefully, someone will be able to shed more light on my problem.

Is there any way I can get a repalcement Eprom from the manufacturer to try to see if that solves the problem, or do I need to return the entire unit to TAPR for exchange?

Thanks for all the responses so far,

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W

-----Original Message-----
>
>"Herb originally" wrote:
>>
>> I have been having some programing problems with my Mic-E Encoder. I
>> wonder if anyone has seen similar problems and what they did to fix them.
>>
>> When I program my Mic-E Encoder I am having a problem with the VIA and
the
>> BTEXT entries. All the other entries seem to stay stabil. When I enter
>> the via entry and/or the btext entry, either one or both of them seem to
>> change randomly after performing the perm command.
>>
>> Even when I finally get a display I can live with and close the program
and
>> secure the power to my Mic-E, then turn on the power to my Mic-E and
>> restart the program, I do not always get the same information in the via
>> and btext registers. The btext usually just disappears to " " or picks
up
>> some of the characters that were lost in the via register. At times I
get
>> graphics characters in both the via and/or the btext registers.
>>
>> This problem seems to indicate to me that there is a problem with the
EPROM
>> in my Mic-E Encoder. Has anyone enountered this problem before? How can
>> it be resolved.
>>
>> If I can not get some sort of resolution by this posting, I am inclined
to
>> return my Mic-E Encoder for replacement since this one appears to be
defective.
>>
>> Herb, KB7UVC
>> Lat/Long 47 26' 05" N / 122 53' 35" W

27. Re: [MIC-E:1776] Re: Mic-E/Oncore/Yaesu newbie problems

From: "Herb" <gerhardt@hctc.com>
Date: Wed, 20 Jan 1999 21:01:07 -0800
To: <mic-e@tapr.org>
Cc: "Bob Bruninga" <bruninga@nadn.navy.mil>
Message-ID: <00a601be44fb$0ed3e380$92a819d0@oemcomputer>
Rendered body type: text/plain

Great message. I certainly learned more of how the VIA entries in Mic-E work.

Please note that all the digi's in Washington State and most in Oregon and Idaho are set for WIDE5. Our standard VIA path that we use in our area is WIDE5-6 and that should make the stations in our area digi throughout the Northwest. So if you travel through the Northwest I recommend that you set your via path to RELAY,WIDE5-6.

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W
-----Original Message-----
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Wednesday, January 20, 1999 7:54 AM
Subject: [MIC-E:1776] Re: Mic-E/Oncore/Yaesu newbie problems

>On Wed, 20 Jan 1999, Steven K. Roberts the Experimenter Extroidinare and
>his MicroShip asked some good questions:
>
>> I'm also a bit unclear on the path and msg switches... Is there a

```
>> recommended "standard" setup for the PIC programming as well as the
>> switch positions?
>
>I think all digipeaters in Washington State are now WIDEn-N capable and so
>(my best guess is that) the best programming path is
>
>  VIA RELAY,WIDE2-2,NONE,WIDE4-4
>
>The Mic-E PATH switch then would equate to
>
>  0 = none                <= no digipeaters
>  1 = RELAY               <= any APRS asset will digipeat you
>  2 = RELAY,WIDE2-2       <= any aprs asset will digi u to 2 more digis
>  3 = RELAY,WIDE2-2,NONE  <= you wouldnt use this one
>  4 = WIDE4-4             <= Assumes you can hit a digi direct and then
>                             it goes 4 hops (most of the state)
>
>Notice how this is not like a noremal TNC.  Even though it can be a list
>of 7 digipeaters, it is in reality interpreted as two independent lists.
>For entries of 1 to 3, it uses the first three entries.  For entries 4 and
>above, it begins all over again.  THis was so you could have two options
>for the starting digi (Used to be RELAY and WIDE)
>
>For areas of the country that dont have WIDEn-N digipeaters, then my
>recommendation used to be:
>
>  RELAY,WIDE,WIDE,WIDE,WIDE,WIDE,WIDE
>
>  so you could select  1 = RELAY
>                       2 = RELAY,WIDE
>                       3 = RELAY,WIDE,WIDE
>                       4 = WIDE
>                       5 = WIDE,WIDE
>                       6 = WIDE,WIDE,WIDE
>                       7 = WIDE,WIDE,WIDE,WIDE
>
>You can see the advantge of the single WIDE4-4 in Washington state, it
>makes the packets 21 bytes shorter for a path of 4 hops...  Since the
>Mic-E format is only 24 bytes long without digis, this is significant.
>k
>
```

28. Re: [MIC-E:1781] Re: Mic-E/Oncore/Yaesu newbie problems

```
From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Thu, 21 Jan 1999 06:45:44 -0600
To: mic-e@tapr.org
Message-ID: <36A72178.AD56AA38@realtime.net>
Rendered body type: text/plain
```

Are you SURE you are sending both a <cr> and a <LF> after the command
$PMOTG,GLL,0001

Ron

"Steven K. Roberts" wrote:

```
...
> 4 - I run communications software (4800 N81) and try to talk to it... no
> echo or response of any kind, including attempts to start reporting with
> "$PMOTG,GLL,0001".
...
--
```

Ron Parsons
W5RKN

29. Re: [MIC-E:1782] Re: Mic-E/Oncore/Yaesu newbie problems

```
From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Jan 1999 10:31:14 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901211030090.17989-100000@arctic>
Rendered body type: text/plain
```

On Wed, 20 Jan 1999, Steve Dimse wrote:

```
> >So, the question is this:  is there some incantation that is not
> >(apparently) documented which must be issued to the Oncore before switching
> >to NMEA mode?
>
> MacAPRS and WinAPRS also have the capabilty to switch modes, you probably
> already have one of these handy...
```

And there is MOTOROLA.BAS included with APRSdos that allows you to talk to
the motorola GPS units...

30. Re: [MIC-E:1784] Re: EPROM Programing Problems

From: George Carr <semcor@telebyte.com>
Date: Thu, 21 Jan 1999 07:34:26 -0800
To: mic-e@tapr.org
Message-ID: <36A74902.967A68C2@telebyte.com>
Rendered body type: text/plain

How about this for deep thought, ... maybe its a software problem?

I overcame this problem the second time I encountered it by just typing in all
the parameters at one time. They all remained when I punched in PERM and then
reset.

Good luck

George, N7GME

Herb wrote:

> Thanks to all that replied to my Eprom Mic-E problem. I am answering the
> received questions in one message so that everyone will be up to speed on
> the various thoughts on my problem.
>
> First of all I have done a visual of all the soldering on the board and all
> looks SAT.
>
> My unit is brand new and has only had around 30 to 40 PERM's. From my
> understanding Eproms have a live expectancy of over 1000 perms, so I would
> rule out that I may have exceeded the life expectancy.
>
> My Eprom has a paper sticker on it that reads MIC 107 and the supplied
> software disc also is for MIC 107, so that is OK. My Eprom has a
> manufacturers part number of PIC 16C73A-20I/SP.
>
> Yes, I am in MIC-E mode and not in MIM mode.
>
> Yes, I have tried many different BText entries with the same results.
> However, I have discovered that the VIA entry is what causes the problem.
> If I enter only 4 paths into via, both the via entries and my BText entries
> remain unchanged. However, if I enter more than 4 then my problems start.
> After the Perm, and if I have more than 4 via entries, the via entries and
> the BText seem to be unstable and change everytime I back out of the program
> and then go back into the program, I get different abnormalities in the VIA
> and BText registers. I do not make any changes or any further Perms, all I
> do is back out of the program and go back into the program on my laptop and
> the information comes up differet in these two registers.
>
> Presently I made only 4 VIA enties (RELAY,WIDE5-6,WIDE,GATE) and my BText
> entry (KB7UVC-14 Herb's Mic-E Tracker) and things remain stabil when I
> secure the program and the Mic-E power and restart it again, all entries
> remain as they were the last time. I am testing the unit in this
> configuration and so far it seems to be operating OK.
>
> The way I see it right now, it is still an Eprom problem. It appears that
> when more than 4 entries are made into the VIA register it overflows into
> the BText register and anything goes including graphics characters and they
> keep changing everytime the unit is brought up again.
>
> I think I have answered all the questions that were asked of me in regards
> to my problem. Hopefully, someone will be able to shed more light on my
> problem.
>
> Is there any way I can get a repalcement Eprom from the manufacturer to try
> to see if that solves the problem, or do I need to return the entire unit to
> TAPR for exchange?
>
> Thanks for all the responses so far,
>
> Herb, KB7UVC
> Lat/Long 47 26' 05" N / 122 53' 35" W
>
> -----Original Message-----
> >
> >"Herb originally" wrote:
> >>

> >> I have been having some programing problems with my Mic-E Encoder. I
> >> wonder if anyone has seen similar problems and what they did to fix them.
> >>
> >> When I program my Mic-E Encoder I am having a problem with the VIA and
> the
> >> BTEXT entries. All the other entries seem to stay stabil. When I enter
> >> the via entry and/or the btext entry, either one or both of them seem to
> >> change randomly after performing the perm command.
> >>
> >> Even when I finally get a display I can live with and close the program
> and
> >> secure the power to my Mic-E, then turn on the power to my Mic-E and
> >> restart the program, I do not always get the same information in the via
> >> and btext registers. The btext usually just disappears to " " or picks
> up
> >> some of the characters that were lost in the via register. At times I
> get
> >> graphics characters in both the via and/or the btext registers.
> >>
> >> This problem seems to indicate to me that there is a problem with the
> EPROM
> >> in my Mic-E Encoder. Has anyone enountered this problem before? How can
> >> it be resolved.
> >>
> >> If I can not get some sort of resolution by this posting, I am inclined
> to
> >> return my Mic-E Encoder for replacement since this one appears to be
> defective.
> >>
> >> Herb, KB7UVC
> >> Lat/Long 47 26' 05" N / 122 53' 35" W

31. Re: EPROM Programing Problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Jan 1999 11:42:50 -0500 (EST)
To: Herb <gerhardt@hctc.com>
Cc: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901211139360.29255-100000@arctic>
Rendered body type: text/plain

I have heard reports that sometimes the READOUT of data from the EPROM
to the programming PC software via the serial port is less reliable than
the actual data is within the Mic-E. To test this, program it the way you
are sure creates the error you are observing and then, try it on the air.

The problem may only be in data READOUT via the serial port to the PC
software display, but the data in the EPROM is OK and working.

bob

32. Re: [MIC-E:1789] Re: EPROM Programing Problems

From: George Carr <semcor@telebyte.com>
Date: Thu, 21 Jan 1999 09:42:14 -0800
To: mic-e@tapr.org
Message-ID: <36A766F5.6440B02@telebyte.com>
Rendered body type: text/plain

Yes, that is a fact. I have found that to be true and didn't remember. Thats
why I suspected the software. Thanks Bob.

One of my five Mic E's performed that way. Just to be sure though I went
through the entire programming since there were only a few lines.

George, N7GME

Bob Bruninga wrote:

> I have heard reports that sometimes the READOUT of data from the EPROM
> to the programming PC software via the serial port is less reliable than
> the actual data is within the Mic-E. To test this, program it the way you
> are sure creates the error you are observing and then, try it on the air.
>
> The problem may only be in data READOUT via the serial port to the PC
> software display, but the data in the EPROM is OK and working.
>
> bob

33. Re: [MIC-E:1786] Re: Mic-E/Oncore/Yaesu newbie problems

From: wordy@qualcomm.com (Steven K. Roberts)
Date: Thu, 21 Jan 1999 13:30:48 -0800
To: mic-e@tapr.org
Message-ID: <v0213051fb2cd41ef1e64@[204.94.54.53]>
Rendered body type: text/plain

Ahhh, progress!

Ron asked:

>Are you SURE you are sending both a <cr> and a <LF> after the command
>$PMOTG,GLL,0001

Yes...

And Bob mentioned:

>And there is MOTOROLA.BAS included with APRSdos that allows you to talk to
>the motorola GPS units...

But the real key was a Tom Clark W3IWI posting from Dec 97 forwarded by
David Harris, N6UOW, that said, in part:

>- Use a DOS terminal program like ProComm at 9600 8N1 and select CHAT mode.
>CHAT permits typed data to be sent in a burst at (enter). The data must be
>sent in one event and not character by character.

Ahhhhh. NMEA sentences are now flowing across the Mac screen! Sheesh.

So, last little question, I hope: does the Mic-E prefer GLL or GGA?

Thanks for all the help, folks! Hope to have 'er running today...

73
Steve N4RVE

34. Re: [MIC-E:1791] Re: Mic-E/Oncore/Yaesu newbie problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 21 Jan 1999 18:30:29 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901211829350.25244-100000@arctic>
Rendered body type: text/plain

On Thu, 21 Jan 1999, Steven K. Roberts wrote:

> So, last little question, I hope: does the Mic-E prefer GLL or GGA?

RMC so it gets course and speed too all in one...

bob

35. weak signal problems

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Thu, 21 Jan 1999 22:44:32 -0500
To: <mic-e@tapr.org>
Message-ID: <00bd01be45b9$86c3d580$0300a8c0@wes>
Rendered body type: text/plain

when I'm driving around local, I hit the digi fine. When traveling further
than 20 miles from a given digi- read EVERY digi between Savannah at Myrtle
Beach SC, I can't hit them. Is this a function of over or under deviation,
or roll off?

Thanks!
Wes

36. Re: [MIC-E:1793] weak signal problems

From: Steve Dimse <sdimse@netrox.net>
Date: Thu, 21 Jan 1999 22:57:38 -0500
To: <mic-e@tapr.org>
Message-ID: <199901220358.WAA29989@netrox.net>
Rendered body type: text/plain

On 1/21/99 10:47 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:

>when I'm driving around local, I hit the digi fine. When traveling further
>than 20 miles from a given digi- read EVERY digi between Savannah at Myrtle
>Beach SC, I can't hit them. Is this a function of over or under deviation,
>or roll off?

>
What is the heights of the digis above AGL? For low digis, this isn't
such an unusal range. Have you compared the performance of the same
radio/antenna setup using a TNC instead of the Mic-E?

Steve K4HG

37. Re: [MIC-E:1794] Re: weak signal problems

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Thu, 21 Jan 1999 23:20:04 -0500
To: <mic-e@tapr.org>
Message-ID: <00c201be45be$7d96f320$0300a8c0@wes>
Rendered body type: text/plain

the savannah digi is 350'
charleston is 160'
myrtle beach is 275'

Admittedly, I'm unfamiliar with the coverage areas of these digi's... but I
couldn't get into them from places I'd been able to with a real TNC before.

-----Original Message-----
From: Steve Dimse <sdimse@netrox.net>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Thursday, January 21, 1999 11:08 PM
Subject: [MIC-E:1794] Re: weak signal problems

>On 1/21/99 10:47 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:
>
>>when I'm driving around local, I hit the digi fine. When traveling
further
>>than 20 miles from a given digi- read EVERY digi between Savannah at
Myrtle
>>Beach SC, I can't hit them. Is this a function of over or under
deviation,
>>or roll off?
>>
>What is the heights of the digis above AGL? For low digis, this isn't
>such an unusal range. Have you compared the performance of the same
>radio/antenna setup using a TNC instead of the Mic-E?
>
>Steve K4HG
>

38. Re: [MIC-E:1795] Re: weak signal problems

From: Steve Dimse <sdimse@netrox.net>
Date: Thu, 21 Jan 1999 23:32:41 -0500
To: <mic-e@tapr.org>
Message-ID: <199901220433.XAA05259@netrox.net>
Rendered body type: text/plain

On 1/21/99 11:20 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:

>the savannah digi is 350'
>charleston is 160'
>myrtle beach is 275'
>
>Admittedly, I'm unfamiliar with the coverage areas of these digi's... but I
>couldn't get into them from places I'd been able to with a real TNC before.
>
Well, the 350 footer has a range of 26 miles, and the 160 footer is 18
miles using the formula in the ARRL handbook (square root of 2 times
height in feet) This is the distance to the horizon...you would then add
a couple miles for the height of a mobile antenna. This also assumes
clear horizons...trees and hills will shorten the range.

So 20 miles isn't so bad...

Steve K4HG

39. Re: [MIC-E:1793] weak signal problems

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 22 Jan 1999 00:19:38 -0500 (EST)
To: mic-e@tapr.org
Message-ID: <Pine.GSO.4.05L.9901220016170.13023-100000@arctic>
Rendered body type: text/plain

On Thu, 21 Jan 1999, Wes Johnston wrote:

> when I'm driving around local, I hit the digi fine. When traveling further
> than 20 miles from a given digi- read EVERY digi between Savannah at Myrtle
> Beach SC, I can't hit them. Is this a function of over or under deviation,
> or roll off?

The mobile environment is a devil on packet. The standard assumptions for
mobiles is 30 dB continuous fading all the time you are moving. When you
have a strong signal say 40 dB above the noise floor, your packets may
decode just fine. But as soon as your signal drops, due to range, then
the 30 dB fade variability is gonna always kill some bits enough to kill a
packet. On voice, we hardly notice noise until it gets so bad that we
cannot make out what the other guy sis saying. But on packet, the
slightest 3ms dropout and that packet is history...

bob

40. MIC-E and GPS-25

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Sat, 23 Jan 1999 17:04:33 -0500
To: <mic-e@tapr.org>
Message-ID: <00cc01be471c$5c8307a0$3e62d6d1@wes>
Rendered body type: text/plain

What are the in's and out's of mounting a GPS25 in the mic-e? Power? audio noise? fit? need to reset
often? drives antenna preamp?

Wes
Email: mailto:kd4rdb@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location: http://map.aprs.net/kd4rdb-9

An armed society is a friendly society

41. Re: [MIC-E:1798] MIC-E and GPS-25

From: "Ken Wolfe" <kenwolfe@erols.com>
Date: Sat, 23 Jan 1999 17:26:35 -0500
To: <mic-e@tapr.org>
Message-ID: <000401be471f$70d02500$a5d97ad1@laptop>
Rendered body type: text/plain

It mounted easily, takes 5 volts from the mic-E, it does provide voltage for
an amplified antenna. The only problem I encountered, is a low level
"cyclic" noise in my transmit audio. This noise coincides with the cycling
of the nmea sentences. All in all, it has been the most stable tracker setup
yet <for me>.

-----Original Message-----
From: Wes Johnston <kd4rdb@bellsouth.net>
To: mic-e@tapr.org <mic-e@tapr.org>
Date: Saturday, January 23, 1999 5:13 PM
Subject: [MIC-E:1798] MIC-E and GPS-25

>This is a multi-part message in MIME format.
>
>------=_NextPart_000_00C9_01BE46F2.7298D080
>Content-Type: text/plain;
> charset="iso-8859-1"
>Content-Transfer-Encoding: quoted-printable
>
>What are the in's and out's of mounting a GPS25 in the mic-e? Power? =
>audio noise? fit? need to reset often? drives antenna preamp?
>
>Wes
>Email: mailto:kd4rdb@usa.net
>APRS: http://www.qsl.net/kd4rdb/aprs.htm
>My Location: http://map.aprs.net/kd4rdb-9
>
>An armed society is a friendly society
>
>
>------=_NextPart_000_00C9_01BE46F2.7298D080
>Content-Type: text/html;
> charset="iso-8859-1"
>Content-Transfer-Encoding: quoted-printable
>

```
><!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
><HTML>
><HEAD>
>
><META content=3Dtext/html;charset=3Diso-8859-1 =
>http-equiv=3DContent-Type><BASE=20
>href=3Dfile://C:\PROGRA~1\COMMON~1\MICROS~1\Stationery\>
><META content=3D'"MSHTML 4.72.3110.7"' name=3DGENERATOR>
></HEAD>
><BODY bgColor=3D#ffffff>
><DIV>What are the in's and out's of mounting a GPS25 in the mic-e?  =
>
>Power?  audio noise? fit? need to reset often?  drives antenna =
>
>preamp?</DIV>
><DIV> </DIV>Wes<BR>Email: mailto:kd4rdb@usa.net<BR>APRS:=20
>http://www.qsl.net/kd4rdb/aprs.htm<BR>My Location:=20
>http://map.aprs.net/kd4rdb-9<BR><BR>An armed society is a friendly=20
>society<BR></BODY></HTML>
>
>------=_NextPart_000_00C9_01BE46F2.7298D080--
>
```

42. Sale of MicEncoders

From: EDGARDHERN@aol.com
Date: Sun, 24 Jan 1999 13:26:31 EST
To: mic-e@tapr.org
Message-ID: <ecfda839.36ab65d7@aol.com>
Rendered body type: text/plain

Please post the following message in your TAPR APRS SIG for all members:

35 MicEncoders available for sale. The whole lot to be sold at $110 each or at
$120 each sold separately. If interested call Edgard Hernandez at
561-622-3484.

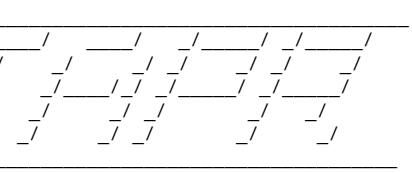
Thank You.

Edgard Hernandez
President, K&E Enterprises, Inc.

43. Welcome to the MIC-E and PIC-E List

From: Lyris <lyris@lists.tapr.org>
Date: Sun, 24 Jan 1999 23:01:32 -0600
To: lyris.mic-e@tapr.org
Message-ID: <LYR2619-420-1999.01.24-23.01.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

****
*   PLEASE SAVE THIS WELCOME MESSAGE!   *
****



Welcome to the TAPR APRS(r) MicEncoder(tm)
and TAPR PIC-Encoder Support Group

This group is all about providing support to MicE and PIC-E
kit builders and users.

Mechanics of the List

The MIC-E mailing list charter is to provide a forum for the exchange of
information about the MIC-E and PIC-E kits. News,
hints & kinks, case studies, and such are welcome parts that we hope will
become an important resource for those participating in the forum.

TAPR is committed to the success of the various SIG lists. All lists have
tremendous potential, but TAPR does not want that potential to be lost.

The criteria for appropriate publication are simple: messages should 1)

advance the discussion at hand, 2) not perpetuate one of our many Holy Wars (i.e., my OS is bigger than your OS, or "your protocol stinks because"), and 3) avoid personal attacks (FLAMES).

In addition, some TAPR lists are reported on the Packet BBS and other networks. Therefore, refrain from using profanity, and do not use the forum
to promote commercial activity. Please stay focused on the issues which relate to the purpose of the forum charter.

If a messages from individuals over time continue to abuse these standards, they will be removed from the list. If problems are frequent to the point of problems, the mail list can become moderated at the discretion of the SIG chairperson.

Our hope is that SIG members will bear in mind the goals of the SIGs when posting messages, and that very few messages will be considered outside of these standards. If you feel that you must FLAME someone, do it via personal mail or use one of the many other places available to vent spleen. The forums are setup for positive, productive, cooperative discussions.

To post messages to the mic-e list, send email to:

mic-e@lists.tapr.org

To unsubscribe from this mailing list, surf to:

http://www.tapr.org/cgi-bin/lyris.pl?enter=mic-e

or send email to:

lyris@lists.tapr.org

with the following line in the body of the message:

unsub mic-e

The host of this list is:

Tucson Amateur Packet Radio (TAPR)
tapr@tapr.org
http://www.tapr.org
8987-309 E Tanque Verde Rd. #337, Tucson, AZ 85749-9399,
phone 940-383-0000, fax 940-566-2544

Just so that you have all the commands neatly contained in one place, here is just about everything you will need to know. Note that this list is running on a Lyris server. Please be aware that the commands might be different from those that you are used to using on other list servers. (For more information on Lyris, see <http://www.lyris.com/>.)

1. First of all, almost everything that you might need to do on the server is most easily and effectively performed via Lyris's Web interface at <http://www.tapr.org/cgi-bin/lyris.pl>.

2. In case you do not have Web access, here are some key commands; in all cases, the default server address is: <lyris@lists.tapr.org>. Other addresses are shown where appropriate. Note that commands may be placed in either the subject line or in the body of the message:

SUBSCRIBING:
  subscribe mic-e your_name
  join mic-e your_name
  alternate address: join-mic-e@lists.tapr.org

UNSUBSCRIBING:
  unsubscribe mic-e

```
                leave mic-e
                alternate address: leave-mic-e@lists.tapr.org

              SETTING MEMBERSHIP TO DIGEST MODE:
                set mic-e digest

              SETTING MEMBERSHIP TO INDEX MODE:
                set mic-e index

              SETTING MEMBERSHIP TO DISCUSSION MODE:
                set mic-e mail

              TEMPORARILY SUSPENDING MAIL FROM THE LIST:
                set mic-e nomail

              RESUMING MAIL FROM THE LIST:
            (command depends on your preferred mode)
                set mic-e mail
                set mic-e digest
                set mic-e index

              ACKNOWLEDGMENT:
                set mic-e ack
                  (sends you a confirmation message when your posts are sent)
                set mic-e noack
                  (no confirmation message when posts are distributed)

              RECEIVING COPIES OF YOUR OWN POSTS:
                set mic-e repro
                  (receive copies of your own posts)
                set mic-e norepro
                  (do not receive copies of your own posts)

              SETTING YOUR PASSWORD:
                set mic-e pw=mypassword
                  (where "mypassword" is the password you wish to set)

              DETERMINING YOUR MEMBERSHIP SETTINGS:
                query mic-e

              RETRIEVING THE CURRENT VERSION OF THIS DOCUMENT:
                get mic-e hello

              MORE INFORMATION ON LYRIS'S COMMANDS:
                help

              POSTING TO THE LIST:
                You must be a subscriber to post messages. Sending
                mail to this address will distribute it to all the members of the
                mailing list:  mic-e@lists.tapr.org
```

3. CHANGING YOUR SETTINGS/ADDRESS VIA THE WEB INTERFACE: To do this, go to <http://www.tapr.org/cgi-bin/lyris.pl> and click the link in the "Change Your Settings" section. You'll need to enter your e-mail address and password (if you chose one) to continue.

   (If you've forgotten your password, you can type in your e-mail address in the field at the bottom of the page and click "Get password" to request Lyris to e-mail your password to you.)

   At the following page, you can read messages, post a message, adjust your settings, or unsubscribe. From the settings page, you can change your status (MAIL, DIGEST, INDEX, or NOMAIL), choose whether or not to see your own messages, and choose whether or not you want to receive a separate acknowledgement via e-mail when one of your messages is posted to the list, You can also change your e-mail address if you need to. When you change your settings, make sure you click the "Save" button at the bottom of the page.

4. ARCHIVES: The mic-e SIG archives are available on the Web, at the following URL: <http://www.tapr.org/sigf.html>

5. BOUNCED MAIL: One of the key features of Lyris is its ability to handle mail bounces transparently to the list owner; as such, bounced mail

will be handled primarily by the Lyris list server.

6. POSTS/REPLIES FROM DIGEST USERS: You *must* change the Subject: line
   when replying to a digest; all posts with "mic-e DIGEST" in the
   Subject: line will be rejected by the server (you will receive a
   "rejection letter" when this happens).

APRS(r) is registered to Bob Bruninga, WB4APR.
Mic-Encoder(tm) is a trademark of Bob Bruninga, WB4APR.

Parties interested in commercial development and commercial sales of the
MIC-E both within and outside of the amateur community should contact
Clement Engineering (http://www.agrelo.com/clement.html).

The TAPR PIC-Encoder is not related to the MIC-Encoder. Commercial
interest of the PIC-E should be directed to TAPR (tapr@tapr.org).

44. [mic-e] Re: TAPR Server Upgrade

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Tue, 26 Jan 1999 21:43:15 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1422-1999.01.26-20.43.46--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

So when I get a GPS 25.... a few questions...

1.   I'm assuming that I'll need to install the battery on the MICe board so
the GPS can maintain time.

2. What is the normal hot start time?

3. What indication will I have from the front panel that the GPS has lock?
I know the light winks, but does it only wink when there's a valid fix?

Wes
Email: kd4rdb@usa.net
Pager: kd4rdbpager@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location: http://map.aprs.net/kd4rdb-9

The opinions expressed here are not necessarily those of my wife.
[Attachment: Wes Johnston.vcf; text/x-vcard; 459 bytes]

45. [mic-e] Re: TAPR Server Upgrade

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 27 Jan 1999 00:25:06 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1461-1999.01.26-23.25.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 1/26/99 9:43 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:

>So when I get a GPS 25.... a few questions...
>
>1.   I'm assuming that I'll need to install the battery on the MICe board so
>the GPS can maintain time.
>
No, the battery is on the GPS.

>2. What is the normal hot start time?
>
I routinely get 10 seconds, perhaps 30 seconds warm start.

>3. What indication will I have from the front panel that the GPS has lock?
>I know the light winks, but does it only wink when there's a valid fix?
>
Yes. I've modified mine a little to make the signal more clear. The
tricolor LED is wired to make the red on all the time, and the green is
on most of the time, except when there is a valid fix, in which case it
flickers rapidly, for about a third of every second. This results in the
LED changing from orange to redish orange, a tough change to notice,
especially while driving. By cutting the red always on lead, the color is
now green which flickers when there is a fix.

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

46. [mic-e] Installing GPS25 Was: TAPR Server Upgrade

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 27 Jan 1999 07:52:20 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1523-1999.01.27-06.52.44--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

THanks for the info... good tip on the RED led... I may do that with mine!
Wes
Email: kd4rdb@usa.net
Pager: kd4rdbpager@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location: http://map.aprs.net/kd4rdb-9

The opinions expressed here are not necessarily those of my wife.

-----Original Message-----
From: Steve Dimse K4HG <k4hg@tapr.org>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Wednesday, January 27, 1999 12:25 AM
Subject: [mic-e] Re: TAPR Server Upgrade

>On 1/26/99 9:43 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:
>
>>So when I get a GPS 25.... a few questions...
>>
>>1. I'm assuming that I'll need to install the battery on the MICe board
so
>>the GPS can maintain time.
>>
>No, the battery is on the GPS.
>
>>2. What is the normal hot start time?
>>
>I routinely get 10 seconds, perhaps 30 seconds warm start.
>
>>3. What indication will I have from the front panel that the GPS has lock?
>>I know the light winks, but does it only wink when there's a valid fix?
>>
>Yes. I've modified mine a little to make the signal more clear. The
>tricolor LED is wired to make the red on all the time, and the green is
>on most of the time, except when there is a valid fix, in which case it
>flickers rapidly, for about a third of every second. This results in the
>LED changing from orange to redish orange, a tough change to notice,
>especially while driving. By cutting the red always on lead, the color is
>now green which flickers when there is a fix.
>
>Steve K4HG
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
[Attachment: Wes Johnston.vcf; text/x-vcard; 459 bytes]

47. [mic-e] Re: TAPR Server Upgrade

From: Alan Crosswell <n2ygk@weca.org>
Date: Wed, 27 Jan 99 10:20:12 EST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1553-1999.01.27-09.20.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>I know the light winks, but does it only wink when there's a valid fix?
Yes.
73 de Alan N2YGK

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

48. [mic-e] Re: TAPR Server Upgrade

From: George Carr <semcor@telebyte.com>
Date: Wed, 27 Jan 1999 07:35:21 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1556-1999.01.27-09.36.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes it blinks ev second iaw the book.

Alan Crosswell wrote:

> >I know the light winks, but does it only wink when there's a valid fix?
> Yes.
> 73 de Alan N2YGK
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

49. [mic-e] Re: Installing GPS25 Was: TAPR Server Upgrade

From: George Carr <semcor@telebyte.com>
Date: Wed, 27 Jan 1999 07:38:44 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1557-1999.01.27-09.39.41--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

GPS-25 ASSEMBLY TIP:

Remember to thread the antenna cable and connect it to the GPS before
installation of the rear Mic E panel. Otherwise you need real tiny fingers.

George, N7GME

Wes Johnston wrote:

> THanks for the info... good tip on the RED led... I may do that with mine!
> Wes
> Email: kd4rdb@usa.net
> Pager: kd4rdbpager@usa.net
> APRS: http://www.qsl.net/kd4rdb/aprs.htm
> My Location: http://map.aprs.net/kd4rdb-9
>
> The opinions expressed here are not necessarily those of my wife.
>
> -----Original Message-----
> From: Steve Dimse K4HG <k4hg@tapr.org>
> To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> Date: Wednesday, January 27, 1999 12:25 AM
> Subject: [mic-e] Re: TAPR Server Upgrade
>
> >On 1/26/99 9:43 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:
> > >
> > >>So when I get a GPS 25.... a few questions...
> > >>
> > >>1.   I'm assuming that I'll need to install the battery on the MICe board
> > so
> > >>the GPS can maintain time.
> > >>
> > >No, the battery is on the GPS.
> > >
> > >>2. What is the normal hot start time?
> > >>
> > >I routinely get 10 seconds, perhaps 30 seconds warm start.
> > >
> > >>3. What indication will I have from the front panel that the GPS has lock?
> > >>I know the light winks, but does it only wink when there's a valid fix?
> > >>
> > >Yes. I've modified mine a little to make the signal more clear. The
> > >tricolor LED is wired to make the red on all the time, and the green is
> > >on most of the time, except when there is a valid fix, in which case it
> > >flickers rapidly, for about a third of every second. This results in the
> > >LED changing from orange to redish orange, a tough change to notice,
> > >especially while driving. By cutting the red always on lead, the color is
> > >now green which flickers when there is a fix.

> >
> >Steve K4HG
> >
> >---
> >You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >
> >
>
>   ---
>
>   Wes Johnston <kd4rdb@usa.net>
>   Field Service Engineer
>   ABB Industrial Systems
>   Pulp and Paper
>
>   Wes Johnston
>   Field Service Engineer <kd4rdb@usa.net>
>   ABB Industrial Systems
>   Pulp and Paper
>   912 238 6672   Voice Pager: 912 235 9350
>   Additional Information:
>   Version   2.1
>   Last Name Johnston
>   First NameWes
>   Label Work912 238 6672
>   Label HomeBloomingdale, GA 31306 USA
>   Revision 19990127T125219Z

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

50. [mic-e] leave-mic-e-4044M@lists.tapr.org

From: Randy Farley <rdfarley@cyberhighway.net>
Date: Wed, 27 Jan 1999 16:49:40 +0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1693-1999.01.27-17.50.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

leave-mic-e-2619I@lists.tapr.org
--

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

51. [mic-e] Source Code for PIC & AX.25

From: "Larry P. Thomas WA0GWA" <lpthomas@krell.com>
Date: Wed, 27 Jan 1999 20:02:28 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1728-1999.01.27-20.02.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has the source code for PIC type processors to generate AX.25 been
released.   I have a few applications that I'd like to work on but would
like to see how others have done the AX.25 coding. I know MIC-E code is
not public and I understand why but I thought that some AX.25 code for PIC
processors was available. Anybody know.

Thanks
Larry

 Larry P. Thomas   wa0gwa voice : 1 913 888-0282
 Krell Technologies   fax : 1 913 782-9359
 8960 Bond   pager : 1 816 989-HELP
 Overland Park, KS   www.krell.com
 66214-1722   USA   lpthomas@krell.com

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

52. [mic-e] Re: Source Code for PIC & AX.25

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 27 Jan 1999 20:13:49 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1733-1999.01.27-20.14.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Best description of it so far was published in the last DCC proceedings.

Cheers - Greg

>Has the source code for PIC type processors to generate AX.25 been
>released. I have a few applications that I'd like to work on but would
>like to see how others have done the AX.25 coding. I know MIC-E code is
>not public and I understand why but I thought that some AX.25 code for PIC
>processors was available. Anybody know.
>
>Thanks
>Larry
>
>---
> Larry P. Thomas   wa0gwa voice : 1 913 888-0282
> Krell Technologies   fax : 1 913 782-9359
> 8960 Bond   pager : 1 816 989-HELP
> Overland Park, KS   www.krell.com
> 66214-1722   USA   lpthomas@krell.com
>
>
>---
>You are currently subscribed to mic-e as: wd5ivd@tapr.org
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

-----
Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

53. [mic-e] Re: Source Code for PIC & AX.25

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 27 Jan 1999 21:38:58 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1744-1999.01.27-20.43.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 1/27/99 9:02 PM Larry P. Thomas WA0GWA (lpthomas@krell.com) wrote:

>Has the source code for PIC type processors to generate AX.25 been
>released. I have a few applications that I'd like to work on but would
>like to see how others have done the AX.25 coding. I know MIC-E code is
>not public and I understand why but I thought that some AX.25 code for PIC
>processors was available. Anybody know.
>
At least one version will be released coincident with the Pic-E. There
are a few final issues with component values being worked
out...availability will be announced here first...

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

54. [mic-e] Re: Source Code for PIC & AX.25

From: "Larry P. Thomas WA0GWA" <lpthomas@krell.com>
Date: Wed, 27 Jan 1999 21:01:51 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1747-1999.01.27-21.02.09--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

How does one go about getting a copy of these proceedings?
Are the available on the web?

Later
Larry

At 08:13 PM 1/27/99 -0600, you wrote:
>Best description of it so far was published in the last DCC proceedings.
>
>Cheers - Greg

 Larry P. Thomas   wa0gwa voice : 1 913 888-0282
 Krell Technologies   fax : 1 913 782-9359
 8960 Bond   pager : 1 816 989-HELP
 Overland Park, KS   www.krell.com
 66214-1722   USA   lpthomas@krell.com

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

55. [mic-e] Re: Source Code for PIC & AX.25

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 27 Jan 1999 21:05:17 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1748-1999.01.27-21.05.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Proceedings are available from with the ARRL or TAPR.

Two web pages at TAPR you can look at it on:
http://www.tapr.org/tapr/html/cnc17.html

or on the new pages that havn't been moved into place yet at:
http://www.tapr.org/taprf/html/cnc17.html

To listen to the audio from the several PIC-E related talks at the DCC go to:
http://www.tapr.org/dcc

Cheers - Greg

>How does one go about getting a copy of these proceedings?
>Are the available on the web?
>
>Later
>Larry
>
>At 08:13 PM 1/27/99 -0600, you wrote:
>>Best description of it so far was published in the last DCC proceedings.
>>
>>Cheers - Greg
>
>---
> Larry P. Thomas   wa0gwa voice : 1 913 888-0282
> Krell Technologies   fax : 1 913 782-9359
> 8960 Bond   pager : 1 816 989-HELP
> Overland Park, KS   www.krell.com
> 66214-1722   USA   lpthomas@krell.com
>
>
>---
>You are currently subscribed to mic-e as: wd5ivd@tapr.org
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

-----
Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

56. [mic-e] TAPR PIC-Encoder Evals Available

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 31 Jan 1999 23:13:15 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-2730-1999.01.31-23.28.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you haven't read about it in the TAPR PSR, TAPR is taking orders for the
Evaluation round of the TAPR PIC-E (PIC Encoder) as shown at this last
years ARRL and TAPR Digital Communications Conference.

The purpose of the Evaluation units is to get further feedback on the
current design before finalizing on the future kit.

For details visit: http://www.tapr.org/tapr/html/Fpice.html

Please note that this is an evaluation unit and not a final kit. If you
don't like participating in coding efforts, giving input on manuals and
operational issues, and making changes in hardware on your own as things
progress over the evaluation period then this is something you should
probably pass on.

Cheers - Greg Jones, WD5IVD

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

February 1999

Original source file: mic-e.9902
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9902

1. [mic-e] mic-e sale

From: jliscano@telcel.net.ve (jose liscano)
Date: Tue, 02 Feb 1999 21:38:55 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3148-1999.02.02-19.38.11--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have 35 units of mic-e for sale.
call me 561-6223484.

francisco liscano yv5ihp

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] GARMIN Software

From: jimprest@oeonline.com (Jim Prest)
Date: Wed, 3 Feb 1999 06:58:15 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3269-1999.02.03-05.53.07--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi, folks. I bought the Garmin 25LVS rx from TAPR for my Mic-e.
The manual talks about software that came with an evaluation kit.
NMEAVWR.EXE, GPSCFG.EXE & GPS25PM.EXE are the programs mentioned.
Are these programs available anywhere for those of us who don't
have the eval kit? I looked at the Garmin web site but my time
was limited and couldn't see any reference to it.

Thanks,
Jim Prest, WA8SEL
de Jim Prest, WA8SEL, Farmington Hills, Michigan
jimprest@oeonline.com

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Re: GARMIN Software

From: Jim Duncan <ku0g@kcaprs.org>
Date: Wed, 03 Feb 1999 09:53:54 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3301-1999.02.03-09.54.33--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You should be able to get it from the Garmin website....www.garmin.com

Jim Prest wrote:
>
> Hi, folks. I bought the Garmin 25LVS rx from TAPR for my Mic-e.
> The manual talks about software that came with an evaluation kit.
> NMEAVWR.EXE, GPSCFG.EXE & GPS25PM.EXE are the programs mentioned.
> Are these programs available anywhere for those of us who don't
> have the eval kit? I looked at the Garmin web site but my time
> was limited and couldn't see any reference to it.
>
> Thanks,
> Jim Prest, WA8SEL
> de Jim Prest, WA8SEL, Farmington Hills, Michigan
> jimprest@oeonline.com
>
> ---
> You are currently subscribed to mic-e as: KU0G@KCAPRS.ORG
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

--
73 de Jim, KU0G
Chairman/Coordinator
Kansas City APRS Working Group, W0APR
Rogue Squadron Storm Chasers

Mailto:ku0g@kcaprs.org
Webpage: http://www.kcaprs.org
BorgNet: 1st of 10

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] MIC-E Message Format

From: Klaus Hirschelmann <k.hirschelmann@mainz.netsurf.de>
Date: Wed, 03 Feb 1999 18:51:20 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3319-1999.02.03-11.59.36--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello OMs,
i try to understand the MIC-E-Message-Format. Everything is OK except
the second byte in the Information Field (D+28). It is containing the
Longitude-Degrees.
For decoding the Format-Paper says :

1. substract 28
2. substract 80 if 180<=D<=189
3. substract 190 if 190<=D<=199
4. if the [L] bit is set, add 100 to get final value of longitude

What do the expressions Pos.2 and Pos.3 mean ?
I think they mean : substractions have to be made in case the values for
"D" are between 180 and 189 or 190 and 199 respective.
In case this is true, according to my meaning to get the correct result
the addition from Pos.4 has to follow direct after Pos.1

Unfortunately in the moment i only have one calculation-sample
available. In this case the transmitted ASCII-Character was "7Fh", the
L-Bit had been set and the result (from knowing the position) had to
be 9 degrees.

My (unconfirmed) calculation-sequence :
"7Fh" equals "127d"
1.: 127 - 28   = 99
4.: 99 + 100 (L-Bit) = 199
3.: 199 - 190   = 9

Who can help and (maybe) confirm my sequence of calculation ?

Thanks for reading and

Vy73 de
Klaus DJ7OO (E-Mail : dj7oo@kh-gps.de)

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: MIC-E Message Format

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Wed, 03 Feb 1999 15:15:31 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3352-1999.02.03-15.16.04--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Let me use my own example.

KA9MLL-1>SPRR1X:`}J=l!2//

The destination byte containing L is "1" or hex 31. This is a shifted
byte, so Lr1HHHH = 0110001, so L is 0.

The first byte in the info field is "`" or hex 60 -- GPS data is valid.
The second byte is "}" or hex 7d, decimal 125.
1. subtract 28 --> 97
2. if 180 <= D <= 189 NO
3. if 190 <= D <= 199 NO
4. If L set NO

Thus longitude is 97, which is correct for my location.

Ron

Klaus Hirschelmann wrote:
> Hello OMs,
> i try to understand the MIC-E-Message-Format. Everything is OK except
> the second byte in the Information Field (D+28). It is containing the
> Longitude-Degrees.
> For decoding the Format-Paper says :
>
> 1. substract 28
> 2. substract 80 if 180<=D<=189
> 3. substract 190 if 190<=D<=199
> 4. if the [L] bit is set, add 100 to get final value of longitude
>
> What do the expressions Pos.2 and Pos.3 mean ?
> I think they mean : substractions have to be made in case the values for
> "D" are between 180 and 189 or 190 and 199 respective.
> In case this is true, according to my meaning to get the correct result
> the addition from Pos.4 has to follow direct after Pos.1
>
> Unfortunately in the moment i only have one calculation-sample
> available. In this case the transmitted ASCII-Character was "7Fh", the
> L-Bit had been set and the result (from knowing the position) had to
> be 9 degrees.
>
> My (unconfirmed) calculation-sequence :
> "7Fh" equals "127d"
> 1.: 127 - 28 = 99
> 4.: 99 + 100 (L-Bit) = 199
> 3.: 199 - 190 = 9
>
> Who can help and (maybe) confirm my sequence of calculation ?
>
> Thanks for reading and
>
> Vy73 de
> Klaus DJ7OO (E-Mail : dj7oo@kh-gps.de)
>
> ---
> You are currently subscribed to mic-e as: RPARSONS@REALTIME.NET
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

--
Ron Parsons
W5RKN

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: MIC-E Message Format

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 3 Feb 1999 22:01:36 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3407-1999.02.03-21.02.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is there ANY case in which longitude would be >180 ?????

Wes
Email: kd4rdb@usa.net
Pager: kd4rdbpager@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location: http://map.aprs.net/kd4rdb-9
-----Original Message-----
From: Ronald G. Parsons <rparsons@realtime.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Wednesday, February 03, 1999 7:10 PM
Subject: [mic-e] Re: MIC-E Message Format

>Let me use my own example.
>
>KA9MLL-1>SPRR1X:`}J=l!2//
>
>The destination byte containing L is "1" or hex 31. This is a shifted
>byte, so Lr1HHHH = 0110001, so L is 0.
>
>The first byte in the info field is "`" or hex 60 -- GPS data is valid.

>The second byte is "}" or hex 7d, decimal 125.
>1. subtract 28 --> 97
>2. if 180 <= D <= 189 NO
>3. if 190 <= D <= 199 NO
>4. If L set NO
>
>Thus longitude is 97, which is correct for my location.
>
>Ron
>
>Klaus Hirschelmann wrote:
>>
>> Hello OMs,
>> i try to understand the MIC-E-Message-Format. Everything is OK except
>> the second byte in the Information Field (D+28). It is containing the
>> Longitude-Degrees.
>> For decoding the Format-Paper says :
>>
>> 1. substract 28
>> 2. substract 80 if 180<=D<=189
>> 3. substract 190 if 190<=D<=199
>> 4. if the [L] bit is set, add 100 to get final value of longitude
>>
>> What do the expressions Pos.2 and Pos.3 mean ?
>> I think they mean : substractions have to be made in case the values for
>> "D" are between 180 and 189 or 190 and 199 respective.
>> In case this is true, according to my meaning to get the correct result
>> the addition from Pos.4 has to follow direct after Pos.1
>>
>> Unfortunately in the moment i only have one calculation-sample
>> available. In this case the transmitted ASCII-Character was "7Fh", the
>> L-Bit had been set and the result (from knowing the position) had to
>> be 9 degrees.
>>
>> My (unconfirmed) calculation-sequence :
>> "7Fh" equals "127d"
>> 1.: 127 - 28   = 99
>> 4.: 99 + 100 (L-Bit) = 199
>> 3.: 199 - 190   = 9
>>
>> Who can help and (maybe) confirm my sequence of calculation ?
>>
>> Thanks for reading and
>>
>> Vy73 de
>> Klaus DJ7OO (E-Mail : dj7oo@kh-gps.de)
>>
>> ---
>> You are currently subscribed to mic-e as: RPARSONS@REALTIME.NET
>> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>--
>Ron Parsons
>W5RKN
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: MIC-E Message Format

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 3 Feb 1999 22:04:36 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3408-1999.02.03-21.06.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/3/99 10:01 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:

>Is there ANY case in which longitude would be >180 ?????
>
This was an attempt to minimize non-printing characters. Longitudes
between 0 and 10 degrees get coded as 190 to 200, longitudes between 100

and 110 are coded as 180 to 190.

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] Re: MIC-E Message Format

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 3 Feb 1999 22:27:10 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3411-1999.02.03-21.28.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I know that hindsight is 20/20 and such... but wouldn't it have been easier
to just offset all the longitudes by 32 instead of 28?
Thanks for clearing that up... for the life of me, I couldn't figure out HOW
long. would be greater than 180.. even with the offset of -28.

Wes
Email: kd4rdb@usa.net
Pager: kd4rdbpager@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location: http://map.aprs.net/kd4rdb-9
-----Original Message-----
From: Steve Dimse K4HG <k4hg@tapr.org>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Wednesday, February 03, 1999 10:05 PM
Subject: [mic-e] Re: MIC-E Message Format

>On 2/3/99 10:01 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:
>
>>Is there ANY case in which longitude would be >180 ?????
>>
>This was an attempt to minimize non-printing characters. Longitudes
>between 0 and 10 degrees get coded as 190 to 200, longitudes between 100
>and 110 are coded as 180 to 190.
>
>Steve K4HG
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Re: MIC-E Message Format

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 3 Feb 1999 22:33:43 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3413-1999.02.03-21.35.38--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 2/3/99 10:27 PM Wes Johnston (kd4rdb@bellsouth.net) wrote:

>I know that hindsight is 20/20 and such... but wouldn't it have been easier
>to just offset all the longitudes by 32 instead of 28?

The issue is more complex than that...if you offset by 32, then you
cannot send charcters representing 96 through 99. However, characters 28
through 31 get trashed on the internet, and the characters '~' and '|'
can't be sent to a TNC without a special escape character.

I'm not happy with the format either, but since it is burned into the
Mic-E and Kenwood we are stuck with it.

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: MIC-E Message Format

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Thu, 04 Feb 1999 06:49:05 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3465-1999.02.04-06.49.41--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No, but the intermediate result in the formulas may be.

Wes Johnston wrote:
>
> Is there ANY case in which longitude would be >180 ?????
>

--
Ron Parsons
W5RKN

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Re: MIC-E Message Format

From: Alan Crosswell <alan@watsun.cc.columbia.edu>
Date: Thu, 4 Feb 99 10:07:37 EST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3493-1999.02.04-09.08.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Let me use my own example.
>
> KA9MLL-1>SPRR1X:`}J=l!2//
>
> The destination byte containing L is "1" or hex 31. This is a shifted
> byte, so Lr1HHHH = 0110001, so L is 0.
>
> The first byte in the info field is "`" or hex 60 -- GPS data is valid.
> The second byte is "}" or hex 7d, decimal 125.
> 1. subtract 28 --> 97
> 2. if 180 <= D <= 189 NO
> 3. if 190 <= D <= 199 NO
> 4. If L set NO
>
> Thus longitude is 97, which is correct for my location.
>
> Ron
>
> Klaus Hirschelmann wrote:
> >
> > Hello OMs,
> > i try to understand the MIC-E-Message-Format. Everything is OK except
> > the second byte in the Information Field (D+28). It is containing the
> > Longitude-Degrees.
> > For decoding the Format-Paper says :
> >
> > 1. substract 28
> > 2. substract 80 if 180<=D<=189
> > 3. substract 190 if 190<=D<=199
> > 4. if the [L] bit is set, add 100 to get final value of longitude
> >
> > What do the expressions Pos.2 and Pos.3 mean ?
> > I think they mean : substractions have to be made in case the values for
> > "D" are between 180 and 189 or 190 and 199 respective.
> > In case this is true, according to my meaning to get the correct result
> > the addition from Pos.4 has to follow direct after Pos.1
> >
> > Unfortunately in the moment i only have one calculation-sample
> > available. In this case the transmitted ASCII-Character was "7Fh", the
> > L-Bit had been set and the result (from knowing the position) had to
> > be 9 degrees.
> >
> > My (unconfirmed) calculation-sequence :
> > "7Fh" equals "127d"
> > 1.: 127 - 28   = 99
> > 4.: 99 + 100 (L-Bit) = 199
> > 3.: 199 - 190   = 9
> >
> > Who can help and (maybe) confirm my sequence of calculation ?

> >
> > Thanks for reading and
> >
> > Vy73 de
> > Klaus DJ7OO (E-Mail : dj7oo@kh-gps.de)
> >
> > ---
> > You are currently subscribed to mic-e as: RPARSONS@REALTIME.NET
> > To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
> --
> Ron Parsons
> W5RKN
>
> ---
> You are currently subscribed to mic-e as: N2YGK@WECA.ORG
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

I just looked at my mic_e parsing code which is based on my writeup of
the mic-e protocol. I believe it is the case that the +100 with the
L-bit does have to go first. In many cases it doesn't matter. One
exception is a longitude of all zeros.

When testing with longitudes typical of the US, it works either way
for some reason:-)

Thanks for pointing this out. I still want to scroll through some
more test cases to confirm this. Much easier to do now that I have a D7:-)

73 de Alan N2YGK

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Re: MIC-E Message Format

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 4 Feb 1999 10:26:49 -0500 (EST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3497-1999.02.04-09.27.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Wed, 3 Feb 1999, Wes Johnston wrote:

> I know that hindsight is 20/20 and such... but wouldn't it have been easier
> to just offset all the longitudes by 32 instead of 28?

No, then "96" though "99" would also be non-printable ASCII..

bob

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: MIC-E Message Format

From: Alan Crosswell <n2ygk@weca.org>
Date: Thu, 4 Feb 99 10:39:45 EST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3499-1999.02.04-09.40.16--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Steve Dimse K4HG <k4hg@tapr.org> said:

>through 31 get trashed on the internet, and the characters '~' and '|'

Excuse me, but "trashed on the internet" is a bogus statement. TCP/IP
provides a transparent channel. The fact is that certain applications
at the end points of these transparent communications channels do not
handle non-printables. On example is that a plain old TNC-2 with
MONITOR ON just prints what it hears followed by a newline character
(assuming you've correctly set a few other options). The quoting
mechanism used for the Mic-E is such that the newline character will
never appear within in the data although some other non-printables

will. So programs like almost all the APRS implementations that run a
TNC in MONITOR mode can all unambiguously decide that everything up to
the newline is one packet's worth of data.

If a TNC is used just for it's modem function and not it's host
computer function (after all, these things were invented when the user
interface was a dumb terminal) using KISS, 6PACK, WA8DED hostmode or
one of the other computer-to-TNC protocols that have length fields,
error detection or correction (checksums), and/or proper special
character quoting mechanisms then a full 8-bit data stream can be
used.

For example, KISS wraps frames in the FESC (frame escape) character.
Here's an excerpt from "The KISS TNC: A simple Host-to-TNC
communications protocol" by Mike Chepponis, K3MC and Phil Karn, KA9Q
(July 14, 1990):

     3. Transparency

     Frames are sent in 8-bit binary; the asynchronous link is
     set to 8 data bits, 1 stop bit, and no parity. If a FEND ever
     appears in the data, it is translated into the two byte sequence
     FESC TFEND (Frame Escape, Transposed Frame End). Likewise, if
     the FESC character ever appears in the user data, it is replaced
     with the two character sequence FESC TFESC (Frame Escape, Tran-
     sposed Frame Escape).

Now I'm not saying that it's practical to require APRS users to have a
KISS-capable TNC. Just pointing out that the lack of transparency
mechanisms in the TNC's MONITOR feature is the basis for "trashing"
certain characters and the somewhat byzantine encodings used by the Mic-E.

73 de Alan N2YGK
sworn defender of the Internet, parser of Mic-E packets
:-)

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] Mic-E Longitude decoding

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Thu, 04 Feb 1999 10:27:26 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3509-1999.02.04-10.28.01--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

There is an error in "APRS® Mic-Encoder Message Formats" in the Mic-E
manual and on the web page:

http://www.tapr.org/tapr/html/kitsf.html

You need to change the calculation of the longitude from:

[D + 28] Binary degrees of longitude. To decode:

          1.subtract 28
          2.subtract 80 if 180 <= D <= 189
          3.or, subtract 190 if 190 <= D <= 199
          4.if the [L] bit is set, add 100 to get final value of
longitude.

to:

[D + 28] Binary degrees of longitude. To decode:

          1.subtract 28
          2.if the [L] bit is set, add 100 to get final value of
longitude.
          3.subtract 80 if 180 <= D <= 189
          4.or, subtract 190 if 190 <= D <= 199

--

Ron Parsons
W5RKN

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] TEST

From: "Don Rotolo" <ROTOLO@mbusa.com>
Date: Thu, 04 Feb 1999 16:25:13 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-3545-1999.02.04-15.26.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TEST

This message should bounce back to me, as I have unsubscribed.

73,
N2IRZ

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

16. [mic-e] HTAPRS expanded for VC H1

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Mon, 15 Feb 1999 14:38:30 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-5613-1999.02.15-14.40.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The purpose of the TAPR HTAPRS SIG has been expanded to include discussion of Kenwood's VC H1 (KenCam) and related issues, such as the Automatic Picture Relay Network (APRN). So, talk among yourselves about VC H1 on HTAPRS.

Stan, WA1LOU, *SIG administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

17. [mic-e] MIC-E Questions

From: "Gary W. Skett" <gws@smartt.com>
Date: Sat, 20 Feb 1999 13:26:51 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-6812-1999.02.20-15.29.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just got my first Mic-e and need to add the battery backup. Question one is, What is the recommended battery and where can I get the battery and it's pcb base?

Question 2; Has anyone interfaced the MIC-E to a Motorola MaxTrac 100?

Please reply to Gary, VE7AS at gws@smartt.com

Thanks.

18. [mic-e] How do I....

From: "Gary W. Skett" <gws@smartt.com>
Date: Sat, 20 Feb 1999 13:28:11 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-6813-1999.02.20-15.29.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can't seem to subscribe to the MIC-E SIG via the TAPR web pages. Can someone tell me how to get on the SIG list?

Thanks, Gary VE7AS
gws@smartt.com

19. [mic-e] Re: MIC-E Questions

From: David Kovar <kovar@WebNexus.COM>
Date: Sat, 20 Feb 1999 13:34:37 -0800 (PST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>

Message-ID: <LYR2619-6817-1999.02.20-15.35.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Question 2; Has anyone interfaced the MIC-E to a Motorola MaxTrac 100?

I would be very interested in the answer to this one as well.

-David

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

20. [mic-e] TAPR Office closed this week

From: "Stan Horzepa" <stanzepa@mail2.nai.net>
Date: Sun, 21 Feb 1999 19:25:44 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-7055-1999.02.21-18.44.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Due to a death in the Jones family, the TAPR office will be closed for the
week.

Greg Jones, WD5IVD
President TAPR

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

21. [mic-e] TAPR Technology Demo Day

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Mon, 22 Feb 1999 11:53:25 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-7221-1999.02.22-11.55.54--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

From: Greg Jones, WD5IVD [mailto:wd5ivd@tapr.org]
Sent: Monday, February 22, 1999 11:33 AM
To: TAPR Announcement List
Subject: [tapr-bb] TAPR Technology Demo Day

TAPR is proud to announce the first annual Technology Demo Day
sponsored by the TAPR APRS SIG.

The purpose of this event is to demonstrate technology independence at the
location of Field Day. Technologies like Packet Radio, SSTV, ATV, Spread
Spectrum, IGates and other operating modes accessed via RF means only will
be allowed, since this reflects current emergency situations at disaster
scenes in our present day world.

The 1999 Technology Demo Day is to coincide with the ARRL Field Day.

Full details are available at http://www.tapr.org/tdfd

1999 Technology Demo Day

* Commercial Power Restriction
  No commercial power is allowed for stations submitting a score.

* Band of operation:
  Any frequencies that are currently allowed for the mode in use. HF,
  VHF, etc

* Use of networks and digipeaters:
  Digipeaters, Networks, can be used for contacts
  All APRS paths allowed.
  Sites must use RF (No direct Inet)

* Participants:
  Any licensed amateur radio operator may participate.

Particpants that are at a direct connection to the net can participate
but are not permitted to submit scores.

* Operator Designations:
Single Operator designated by "SO".
Multi Operator by "MO"
No Operator by "NO"

* Minimum exchange consists of:
Call Sign, ARRL section, Operator Designation (SO, MO, NO)

* Submission of scores:
Do not send your Logs. Send only your score.
Send your score to kb2scs@worldnet.att.net or use
http://www.tapr.org/tdfd
Scores must be submitted within two weeks of the end of the event.

* Points:
o 25 points for receiving the ARRL message in digital form

o 2 points for every LIVE packet QSO (packet network, conference
nodes, digis, etc)

o 1 point for every APRS station "received"
o 2 points for every APRS station exchanging messages

o 25 points for receiving ATV signals from a range over 5 miles
o 25 points for transmitting ATV to another station over 5 miles

o 5 points for every received SSTV picture received
o 5 points for every transmitted SSTV contact

o 25 points for receiving any Satellite digital MESSAGE
o 25 points for transmitting any Satellite digital Message.

o 25 points for making a complete exchange using Spread Spectrum
o 5 points for each Spread Spectrum contact thereafter

Suggested Operating instructions

* HOOK UP YOUR SPEAKER.
If you aren't listening to the packets, then you may not know what is
going on the channel. TNC's do not detect collisions. DCD's do not
either, so just because the little green light is OFF, does not mean
the channel is not all QRM
* Operate normally.
USE SHORT packets and MINIMUM PATH.
Use WIDEN-N where possible.
Keep hops practical for your area. (any more than 3 probably
impossible)..
Work everyone you see on mail/traffic pages.
* ACKS are not required!
If you get a QSL message from the other station, don't wait for an ACK.
Erase the outgoing message to reduce QRM!
* Internet Gateways
The key here is that IGates only pass through MESSAGEs to LOCAL
stations in their area. This means you can QSO with anyone if you
already know their callsign! You will probably NOT see their posits
since only messages go via IGates (normally). This is why you should
always include your GRIDSQ in all of your text messages.
Here are some ways we have come up with to get around these quirks for:
* a) Assume an SSID of -6 for stations and guess at some
APRS calls...
* Watch your traffic list. As soon as anyone QSO's anyone in your
area, you will see them for a return QSO.
* Send a CQ FD MESSAGE with your GRIDSQ and report to a DIGI in a
known area with an IGate. This will go through all IGates.
* Do a MAPS-OVERLAY-DIGIS for an area to see a good target call.
(See C)
* Do NOT send CQFD or TARGET messages until you have exhausted all
other contacts, else we may totally BLOCK the RF channels around
IGates.
* Once you are working via IGATES, PLEASE minimize your path to ONLY
the hops needed to hit your local IGate.
* Home Stations If you are not going to operate, please
set up your UN-ATTENDED home station for AUTOREPLY with something

like 'QSL. [gridsq].(NO), ARRL section, etc. For APRSdos this
simply means send ONE message to the callsign of REPLY and make
sure this message is the first in your SEND list.

APRS® is registered to Bob Bruninga, WB4APR.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
----
e-mail: tapr@tapr.org   web: <http://www.tapr.org/>
ftp: ftp.tapr.org
phone: 940-383-0000   fax: 940-565-2544

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

22. [mic-e] RadioShack HT 202 Interface

From: Richard Allen <rallen@svn.net>
Date: Sat, 27 Feb 1999 21:08:00 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-8115-1999.02.27-23.21.55--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is ther anyone out there who can help mw with the wiring of my Radio
Shack 202HT with the MIC-E? More specifically what pins do I send my mic
and speaker outputs to? The MIc_e inputs are:

Mic Power,Radio/PTT gnd, Microphone PTT, Receiver Audio, Microphone
Audio, Microphone Ground.

I only have Mic and speaker outputs with their grounds.

Thank you for your help. 73/Richard KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

23. [mic-e] Re: MIC-i.e. digest: February 27, 1999

From: "D. F. Welch" <amersci@flash.net>
Date: Sun, 28 Feb 1999 07:35:36 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-8163-1999.02.28-09.39.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 12:00 AM 2/28/99 -0600, you wrote:
>TAPR MIC-E & PIC-E Special Interest Group Digest for Saturday, February
27, 1999.
>
>1. RadioShack HT 202 Interface
>
>--
>
>Subject: RadioShack HT 202 Interface
>From: Richard Allen <rallen@svn.net>
>Date: Sat, 27 Feb 1999 21:08:00 -0800
>X-Message-Number: 1
>
>Is ther anyone out there who can help mw with the wiring of my Radio
>Shack 202HT with the MIC-E? ...

Richard,
   The wiring for the 202 HT is the same as the wiring for
the ICOM W32. For one way to do it take a look at:

        ftp://ftp.tapr.org/mic-e/misc/w32doc.txt

>
>---
>
>END OF DIGEST

>
>---
>You are currently subscribed to mic-e as: AMERSCI@FLASH.NET
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
>
73,
Dan Welch
w6dfw@qsl.net

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

24. [mic-e] Re: Backup battery

From: Richard Allen <rallen@svn.net>
Date: Sun, 28 Feb 1999 09:18:54 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-8176-1999.02.28-11.34.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

D.F.

Thank you very much for your help with wiring to HT 202! Another
question. I read a reference to a backup battery and see a spot on the
MIC-E board for one; but, I have not come accross any documentation on
installing one. Is one needed to keep the programing on the MIM if
power is removed? I plan to use the unit mostly as a portable.

Is there more thorough documentation than the manual that comes with the
MIC-E?

Thanks again,

Richard KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

25. [mic-e] Re: Backup battery

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Sun, 28 Feb 1999 17:57:30 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-8216-1999.02.28-16.59.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

only needed for some internally mounted GPS's... not needed for mic-e at
all.

Wes
Email: kd4rdb@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location:
Car: http://map.aprs.net/kd4rdb-9
Truck: http://map.aprs.net/kd4rdb-10
-----Original Message-----
From: Richard Allen <rallen@svn.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Sunday, February 28, 1999 12:33 PM
Subject: [mic-e] Re: Backup battery

>D.F.
>
>Thank you very much for your help with wiring to HT 202! Another
>question. I read a reference to a backup battery and see a spot on the
>MIC-E board for one; but, I have not come accross any documentation on
>installing one. Is one needed to keep the programing on the MIM if
>power is removed? I plan to use the unit mostly as a portable.
>
>Is there more thorough documentation than the manual that comes with the
>MIC-E?
>
>Thanks again,
>
>Richard KE6TNA
>

>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

March 1999

Original source file: mic-e.9903
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9903

1. [mic-e] MIM/Tripmate Power setup

From: Richard Allen <rallen@svn.net>
Date: Thu, 04 Mar 1999 07:45:34 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-8902-1999.03.04-10.04.42--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am building a tracker using a Delorme Tripmate and a MiM module. I found N9UUR's great web site with wiring instructions. I noticed that his MiM version was v.2. I just purchased the MiM v.4. N9UUR's instructions call for a power modification so that the Tripmate will run off of 12 volts. The MiM module I have has an on board voltage regulator that supplies 100 ma at +5 volts from an input between 6.5 and 40 VDC! The MiM only needs 15 ma. My question is: What are the power requirements of the Tripmate? Apparently it will runn off of 5 volts. How much current does it draw? It would be great if the Tripmate could use the Mim's regulator. Can anyone out there help me?

Thank you for all the great help I have gotten from this service! Thank you TAPR, thank all of you!

73/Richard KE6TNA Inverness, CA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Mic-E Observation

From: "Herb" <gerhardt@hctc.com>
Date: Mon, 8 Mar 1999 09:07:55 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-9637-1999.03.08-11.10.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I went skiing yesterday and had the VHF side of my duel band mobile operating on 144.39 with my Mic-E Encoder. This is the way I have been operating it in the past and I have to keep the volume low as not to hear the continuous stream of packets. On the way home I knew my wife was going to call me on our normal repeater on 146.62 and it dawned on me as to how to monitor my home repeater and still transmit on APRS with the same radio.

I pulled over and set up a memory channel on my home repeater of 146.62 and set a transmit offset of -2.23 (146.62 - 144.39 = 2.23). That way I was monitoring my home repeater and still transmitting my APRS packets every minute on 144.39. And best off all, I did not have to hear those APRS packets while driving.

When my wife did call me on 146.62, all I had to do was press my call channel button and talk to her. You should shut off the Mic-E power while using the repeater to avoid transmitting any packets to the repeater.

I am sure others have already discovered this set up, but I figure I would point it out to those that have not.

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W

3. [mic-e] Re: Mic-E Observation

From: glapin@juno.com
Date: Mon, 8 Mar 1999 21:19:27 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-9739-1999.03.08-21.26.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Herb:

The only problem with this scheme is that your Mic-E also can't hear the other packets on 144.39. How will it know it is about to collide with another station?

73, Greg N9GL

On Mon, 8 Mar 1999 09:07:55 -0800 "Herb" <gerhardt@hctc.com> writes:

>I went skiing yesterday and had the VHF side of my duel band mobile
>operating on 144.39 with my Mic-E Encoder. This is the way I have
>been operating it in the past and I have to keep the volume low as not
>to hear the continuous stream of packets. On the way home I knew my
>wife was going to call me on our normal repeater on 146.62 and it
>dawned on me as to how to monitor my home repeater and still transmit
>on APRS with the same radio.
>
>I pulled over and set up a memory channel on my home repeater of
>146.62 and set a transmit offset of -2.23 (146.62 - 144.39 = 2.23).
>That way I was monitoring my home repeater and still transmitting my
>APRS packets every minute on 144.39. And best off all, I did not have
>to hear those APRS packets while driving.
>
>When my wife did call me on 146.62, all I had to do was press my call
>channel button and talk to her. You should shut off the Mic-E power
>while using the repeater to avoid transmitting any packets to the
>repeater.
>
>I am sure others have already discovered this set up, but I figure I
>would point it out to those that have not.
>
>Herb, KB7UVC
>Lat/Long 47 26' 05" N / 122 53' 35" W

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com/getjuno.html
or call Juno at (800) 654-JUNO [654-5866]

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: Mic-E Observation

From: "Herb" <gerhardt@hctc.com>
Date: Mon, 8 Mar 1999 21:29:46 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "nwaprssig" <nwaprssig@nwaprs.org>, "aprssig" <aprs@qth.net>
Message-ID: <LYR2619-9765-1999.03.08-23.32.07--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I got 5 comments to my message. 3 liked it and 2 had some reservations. I
will answer those questions to the way I understand it. No, I am not an
expert on the subject but I will try.

1. Yes, I might get packet collisions. However that is not any worse than
your home station or regular trackers are doing. They listen for an open
spot, but that open spot may only be at your location and not at the
location receiving your signal. This should really be no problem, maybe
some of your packets will die do to the collisions, but others will make it
through, so you will be on the map. It worked just fine when I checked my
route on my computer after I got home.

Try listening to the packets received at a digi site. At our local mountain
top digi, W7AA-10, that means an almost continuous stream of packets with
an almost continuous stream of collisions. This digi can hear from all
directions for around 100 miles. I am not really sure how that TNC finds
any clean packets to retransmit, but I do know it retransmits most of them.

2.   In our area, I was told to set the Mic-E delay time to zero seconds or
you might never send your packets as there are so many packets from so many
different stations at the same time. You might never find an open window
long enough to send your position. Even when your station gets an open
window to send your packet, there is nothing to say that the station
receiving your packet is not also receiving packets from stations that your
station does not hear. APRS is somewhat of a crapshoot as to whether your
packets will make it out or not.

My home, at times, does not get a return of my packets for hours at a time.
It is not that my packets did not get sent, it is that they never made it to
a wide digi clean enough to get retransmitted. I have several wide digi's
including 2 mountain top digi's that I hit on simplex most of the time
without any problems but when I check some of the live web servers, my
station has not transmitted for several hours at a time.

3.   With my delay time set to zero, it will not matter that a long QSO is
going on on the repeater.

I believe the only real reason for setting the delay time to something other than zero is so that you do not send and automatic Mic-E packet over the top of an active QSO on your local voice repeater with Mic-E capability. The better solution is to not set your Mic-E to auto transmissions on your local Mic-E repeater unless that repeater does not retransmit the packets, otherwise, we will get a bad rap from the non APRS users of the repeater. I use my auto mode only for transmitting on the APRS frequency (144.39).

Herb, KB7UVC
Lat/Long 47 26' 05" N / 122 53' 35" W

-----Original Message-----
From: glapin@juno.com <glapin@juno.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Monday, March 08, 1999 7:23 PM
Subject: [mic-e] Re: Mic-E Observation

>Herb:
>
>The only problem with this scheme is that your Mic-E also can't hear the
>other packets on 144.39. How will it know it is about to collide with
>another station?
>
>73, Greg N9GL

Isn't there a couple down sides to this:

1. The TNC in the Mic-E won't know when 144.39 is busy, so it may transmit on top of someone else.
2. When the TNC does want to transmit, it will hold off if there's a long QSO going on the 146.62.

Or doesn't the the Mic-E care? I'm just considering one at this point, so I'm not sure about the receive side. I do seem to remember there's some sort of detector there to detect a busy channel.

Ray J. Vaughan, MS, CBTE
KD4BBM
ray@rayvaughan.com
http://www.rayvaughan.com/
>
>On Mon, 8 Mar 1999 09:07:55 -0800 "Herb" <gerhardt@hctc.com> writes:
>>I went skiing yesterday and had the VHF side of my duel band mobile
>>operating on 144.39 with my Mic-E Encoder. This is the way I have
>>been operating it in the past and I have to keep the volume low as not
>>to hear the continuous stream of packets. On the way home I knew my
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>>I pulled over and set up a memory channel on my home repeater of
>>146.62 and set a transmit offset of -2.23 (146.62 - 144.39 = 2.23).
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>>
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>>channel button and talk to her. You should shut off the Mic-E power
>>while using the repeater to avoid transmitting any packets to the
>>repeater.
>>
>>I am sure others have already discovered this set up, but I figure I
>>would point it out to those that have not.
>>
>>Herb, KB7UVC
>>Lat/Long 47 26' 05" N / 122 53' 35" W
>
>_____
>You don't need to buy Internet access to use free Internet e-mail.
>Get completely free e-mail from Juno at http://www.juno.com/getjuno.html
>or call Juno at (800) 654-JUNO [654-5866]
>
>---
>You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] mim/tripmate tracker

From: Richard Allen <rallen@svn.net>
Date: Tue, 16 Mar 1999 08:12:25 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-10978-1999.03.16-10.25.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have just put together a Mim/Tripmate/HT 202 tracker and am trying to
get it to work. I got as far as programming the mim. I am not sure I
have got it right, however.

Can anyone tell me what the PTT level should be set at for the HT 202?
How do I determine when the audio level is set properly on the mim?
Does the Tripmate put out the "GPRMC" NMEA string?

I was going to disconnect the GPS serial input to the MIM and feed it
and ground into the PC and run the Delorme software to see if the GPS
was working O.K.. Any ideas?

Thank you for your help! 73/Richard

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: mim/tripmate tracker

From: "Darrell R. Hale" <halehome@home.com>
Date: Tue, 16 Mar 1999 21:33:44 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11043-1999.03.16-20.34.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Can anyone tell me what the PTT level should be set at for the HT 202?

If the HT 202 is like the Icom PTT input, the Mim will only work properly
when it has powered applied. Turning off the unit will result in an always
keyed PTT. You can correct this by adding an additional transistor stage,
but I don't have a reference to that type of circuit diagram handy (and I
haven't got around to fixing mine yet as I learned about this after I
thought I was done wiring my unit).

>I was going to disconnect the GPS serial input to the MIM and feed it
>and ground into the PC and run the Delorme software to see if the GPS
>was working O.K.. Any ideas?

You do know about tying the GPS's serial TX and RX data lines together on
the Tripmate when used standalone so as to get the unit started when power
is first applied? (It sends the ASTRAL output string back into the GPS,
which get the unit going.) Also, you are using a Tripmate, and not an
Earthmate (which apparently will not work with the MIM)?

The monitoring of the data should work. You should also be able to keep the
MIM connected so that both the MIM and the PC sees the GPS data at the same
time.

>Thank you for your help! 73/Richard

Darrell

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: mim/tripmate tracker

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 17 Mar 1999 16:28:21 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11185-1999.03.17-15.30.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>You do know about tying the GPS's serial TX and RX data lines together on
>the Tripmate when used standalone so as to get the unit started when power

>is first applied? (It sends the ASTRAL output string back into the GPS,
>which get the unit going.) Also, you are using a Tripmate, and not an
>Earthmate (which apparently will not work with the MIM)?

Dont forget the DTR on pin 4 too... gotta raise it high to turn on the
tripmate.
visit my www page for links to 3 different methods to modify a tripmate to
do 5volts and auto start.

Wes
Email: kd4rdb@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location:
Car: http://map.aprs.net/kd4rdb-9
Truck: http://map.aprs.net/kd4rdb-10

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] Re: mim/tripmate tracker

From: Richard Allen <rallen@svn.net>
Date: Wed, 17 Mar 1999 22:54:16 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11243-1999.03.18-01.07.33--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you for your reply. Still working on this. 73/Richard KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Re: mim/tripmate tracker

From: Richard Allen <rallen@svn.net>
Date: Wed, 17 Mar 1999 22:55:47 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11244-1999.03.18-01.09.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you for your reply. Still having trouble getting this unit to
work. 73/Richard KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: mic-e digest: March 18, 1999

From: jkest <jkest@ionet.net>
Date: Fri, 19 Mar 99 16:02:27 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11437-1999.03.19-15.58.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Will the MIC-E work with a Radio Shack HTX 202, with a extension mic?
Thanks jk, KD5GAM

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Re: mic-e digest: March 19, 1999

From: "D. F. Welch" <amersci@flash.net>
Date: Sat, 20 Mar 1999 02:56:12 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11554-1999.03.20-04.59.04--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 12:00 AM 3/20/99 -0600, you wrote:
>TAPR MIC-E & PIC-E Special Interest Group Digest for Friday, March 19, 1999.
>
>1. Re: mic-e digest: March 18, 1999
>
>--
>
>Subject: Re: mic-e digest: March 18, 1999

>From: jkest <jkest@ionet.net>
>Date: Fri, 19 Mar 99 16:02:27 -0600
>X-Message-Number: 1
>
>Will the MIC-E work with a Radio Shack HTX 202, with a extension mic?

JK,

Yes it will. I have just uploaded a file MIC_E2HT.zip
to the ftp.tapr.org/mic-e/upload directory. This file
describes how the trick can be done. In the next few
days the file should appear in the mic-e/misc directory
on the tapr ftp site. In the interim, there is a verbal
description called w32doc.txt on the site which
MIC_E2HT.ZIP will replace.

-Dan - W6DFW
If you are in a hurry email me privately and I will
email you a copy of the file.
>Thanks jk, KD5GAM
>
>
>
>---
>
>END OF DIGEST
>
>---
>You are currently subscribed to mic-e as: AMERSCI@FLASH.NET
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Anyone out there Using a HT 202/Mim/Tripmate Tracker?

From: Richard Allen <rallen@svn.net>
Date: Sat, 20 Mar 1999 23:53:53 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11726-1999.03.21-02.09.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gary,

Thank you for your help. I must be getting closer to getting this thing
to work! I am still can not get my radio to transmit. I have checked:

1.The GPS for output and a fix using Delorme's software, and   its
connection to the MIM serial in.

2. Programmed the Mim successfully and checked the wiring in and out.

3. Checked the hold of voltage ~1.5 volts until I lower the squelch
or   monitor a signal.

4. Tried both the PTT active level high and low. (I do not know
what   the HT 202 wants.)

5. Made sure J1 was on for HT operation.

6. Tied Audo ground (Mim) to ground since my HT 202 has common
audio   and mic ground.

I adjust the squelch to keep the hold off voltage above .8 volts on the
Mim so it will transmit.

Hmmmmmm I am ruunning out of things to check! Any ideas?

Thanks again. Richard KE6TNA Inverness, CA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Help!

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 21 Mar 1999 07:52:29 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11739-1999.03.21-09.56.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for our local Community Policing Volunteers. I'm not having much success with receive audio out of the rig (via the RJ45 microphone connector) Has anyone got any experience working with the MaxTrac that could give me some pointers?

Also need to know if the Garmin 25 engine is the same wiring as the 20 for internal installation in the MIC-E?

Thanks,
Gary, VE7AS

14. [mic-e] Re: Anyone out there Using a HT 202/Mim/Tripmate Tracker?

From: "Gary S. Bargholz" <N9UUR@execpc.com>
Date: Sun, 21 Mar 1999 09:57:10 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11741-1999.03.21-10.00.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Gary,
>
> Thank you for your help. I must be getting closer to getting this thing
> to work! I am still can not get my radio to transmit. I have checked:

Snip
>
> I adjust the squelch to keep the hold off voltage above .8 volts on the
> Mim so it will transmit.
>
> Hmmmmmm I am ruunning out of things to check! Any ideas?
>
> Thanks again. Richard KE6TNA Inverness, CA
>

Hello again... Well first off "This should work!" with that said, why not...

Please take no offence, I fully admit that I have PERFECTLY made and wired up many devices that suffered from "this should work" syndrome. So, step back and check it over again, esp and wiring and connections.

I have never used a HTX-202, Yeasu, ADI, Kenwood, Icom, all work eventually. Another avenue may be to NOT use the MIM 'HT' jumper, and do separate Audio and PTT lines. Take the audio and run it through a 0.1 uf cap, take the PTT though a 3.9K (a 2.2K resistor will work too). The cap and resistor both then go to the "audio in" on the HT.

The Radio shack requires a much higher current draw than say an Icom to key the transmitter. The MIM in HT mode just may not be able to supply enough current to do the job. If you have, or can borrow an ADI, or a Yeasu 530, give them a try, I know they work with the MIM in HT mode.

Hope this helps, please let me know.

Gary

_____

Gary Bargholz
http://www.execpc.com/~n9uur
AMSAT Area 9 Coordinator, Wisconsin
Chairman: W.A.R. The WI Association of Repeaters
Treasurer: M.R.C. The Milwaukee Repeater Club
Owner: N9UUR-10 Milwaukee APRServe IGate
_____

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] Re: Help!

From: "Gary D. Strawn" <freqman@jps.net>
Date: Sun, 21 Mar 1999 08:47:26 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11748-1999.03.21-10.52.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Try the MaxTrac accessory connector at the rear of the rig. For pin outs
of all
the connectors see:
http://www.batlabs.com/maxrad.html

Let me know if this info helps.

Gary S.

At 07:52 AM 3/21/99 -0800, Gary W. Skett wrote:
>I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for our
>local Community Policing Volunteers. I'm not having much success with
>receive audio out of the rig (via the RJ45 microphone connector) Has
>anyone got any experience working with the MaxTrac that could give me some
>pointers?
>
>Also need to know if the Garmin 25 engine is the same wiring as the 20 for
>internal installation in the MIC-E?
>
>Thanks,
>Gary, VE7AS
>

Gary D. Strawn
Travis AFB, CA

16. [mic-e] Re: Help!

From: "Steven R. Bible" <n7hpr@amsat.org>
Date: Sun, 21 Mar 1999 11:57:10 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11749-1999.03.21-10.59.16--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 07:52 AM 3/21/99 -0800, you wrote:
>Also need to know if the Garmin 25 engine is the same wiring as the 20
>for internal installation in the MIC-E?

Yes it is.

Make sure you identify pin 1 on the GPS-25. It's not the tiny "1" you see
on the PCB. If you are looking down onto the connector, with the connector
ontop the PCB, number 1 is the far left.

As a double check, the +5V lead is red and Ground is black.

Make absolutly sure that you have the right connections before applying
power!!!

Double check the GPS-25 docs.
- Steve, N7HPR
  n7hpr@tapr.org
  n7hpr@amsat.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

17. [mic-e] Re: Help!

From: David Dobbins <ddobbins@localaccess.com>
Date: Sun, 21 Mar 99 09:17:21 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11754-1999.03.21-11.17.29--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can't help with the radio issue, but yes, the G20 and G25 wiring is the
same. Dave.

David S. Dobbins/K7GPS
NWAPRS Coordinator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

18. [mic-e] Re: Help!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Mar 1999 17:19:52 -0500 (EST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11783-1999.03.21-16.22.31--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Sun, 21 Mar 1999, Gary W. Skett wrote:

> I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for
> our local Community Policing Volunteers. I'm not having much success
> with receive audio out of the rig (via the RJ45 microphone connector)

You dont need the receive audio unless you want to operate in the AUTO
mode. The audio has to be at least a few volts if you are going to use
it. Maybe use the speaker output through a 8 ohm to 600 ohm transformer
to up the drive voltage.

bob

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

19. [mic-e] Re: Help!

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 21 Mar 1999 16:01:39 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11793-1999.03.21-18.11.55--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bob;
Yes, the AUTO mode was one of the "features" they wanted. I'll try the
audio transformer off the handset audio output available off the RJ45 jack.
Otherwise there will be cables hanging all over the thing from rear
accessory connectors, etc. and that defeats the purpose of trying to have
everything come through the front panel Motorola microphone connector...

Thanks.

-----Original Message-----
From: Bob Bruninga <bruninga@nadn.navy.mil>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Sunday, March 21, 1999 2:22 PM
Subject: [mic-e] Re: Help!

>On Sun, 21 Mar 1999, Gary W. Skett wrote:
>
>> I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for
>> our local Community Policing Volunteers. I'm not having much success
>> with receive audio out of the rig (via the RJ45 microphone connector)
>
>You dont need the receive audio unless you want to operate in the AUTO
>mode. The audio has to be at least a few volts if you are going to use
>it. Maybe use the speaker output through a 8 ohm to 600 ohm transformer
>to up the drive voltage.
>
>bob
>
>
>
>---
>You are currently subscribed to mic-e as: gws@smartt.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

20. [mic-e] Re: Help!

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 21 Mar 1999 16:05:56 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11794-1999.03.21-18.12.00--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks, hooked it up and it didn't smoke so it means I still know what red &
black stand for!! Now if I could just get it to interface!!

Cheers,
Gary.

-----Original Message-----
From: David Dobbins <ddobbins@localaccess.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Sunday, March 21, 1999 9:17 AM
Subject: [mic-e] Re: Help!

>Can't help with the radio issue, but yes, the G20 and G25 wiring is the
>same. Dave.
>
>David S. Dobbins/K7GPS
>NWAPRS Coordinator
>
>
>---
>You are currently subscribed to mic-e as: gws@smartt.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

21. [mic-e] Re: Help!

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 21 Mar 1999 16:06:38 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11795-1999.03.21-18.12.05--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Got it, thanks! Hooked it up and no smoke, so next is to get it interfaced
successfully....

Thanks.

-----Original Message-----
From: Steven R. Bible <n7hpr@amsat.org>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Sunday, March 21, 1999 8:59 AM
Subject: [mic-e] Re: Help!

>At 07:52 AM 3/21/99 -0800, you wrote:
>>Also need to know if the Garmin 25 engine is the same wiring as the 20
>>for internal installation in the MIC-E?
>
>Yes it is.
>
>Make sure you identify pin 1 on the GPS-25. It's not the tiny "1" you see
>on the PCB. If you are looking down onto the connector, with the connector
>ontop the PCB, number 1 is the far left.
>
>As a double check, the +5V lead is red and Ground is black.
>
>Make absolutly sure that you have the right connections before applying
>power!!!
>
>Double check the GPS-25 docs.
>- Steve, N7HPR
> n7hpr@tapr.org
> n7hpr@amsat.org
>
>
>---

>You are currently subscribed to mic-e as: gws@smartt.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

22. [mic-e] Re: Help!

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 21 Mar 1999 16:08:41 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11796-1999.03.21-18.12.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Got it! Thanks! I think I'm going to have to do what Bob suggests and put a 8 ohm to 600 ohm audio transformer in the handset audio output line to boost the audio high enough to use with the MIC-E. Need the AUTO feature otherwise I would not worry about it, but that's the key feature they all liked about it!

Thanks.
Gary, VE7AS

    -----Original Message-----
    From: Gary D. Strawn <freqman@jps.net>
    To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
    Cc: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
    Date: Sunday, March 21, 1999 8:53 AM
    Subject: [mic-e] Re: Help!

    Try the MaxTrac accessory connector at the rear of the rig. For pin outs of all
    the connectors see:
    http://www.batlabs.com/maxrad.html

    Let me know if this info helps.

    Gary S.

    At 07:52 AM 3/21/99 -0800, Gary W. Skett wrote:

        I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for our local Community Policing Volunteers. I'm not having much success with receive audio out of the rig (via the RJ45 microphone connector) Has anyone got any experience working with the MaxTrac that could give me some pointers?

        Also need to know if the Garmin 25 engine is the same wiring as the 20 for internal installation in the MIC-E?

        Thanks,
        Gary, VE7AS

    Gary D. Strawn
    Travis AFB, CA

23. [mic-e] Re: Help!

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 21 Mar 1999 22:40:25 -0500 (EST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11828-1999.03.21-21.43.01--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

That sounds like a high impedance connection. SO you must choose a
transformer not to load it down, but that will give you at least say 2
volts of audio... or a single transistor amp to get the level up...

bob
 On
Sun, 21 Mar 1999, Gary W. Skett wrote:

> Hi Bob;
> Yes, the AUTO mode was one of the "features" they wanted. I'll try the
> audio transformer off the handset audio output available off the RJ45 jack.
> Otherwise there will be cables hanging all over the thing from rear

> accessory connectors, etc. and that defeats the purpose of trying to have
> everything come through the front panel Motorola microphone connector...
>
> Thanks.
>
> -----Original Message-----
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> Date: Sunday, March 21, 1999 2:22 PM
> Subject: [mic-e] Re: Help!
>
>
> >On Sun, 21 Mar 1999, Gary W. Skett wrote:
> >
> >> I need to interface a MIC-E to a Motorola MaxTrac 100 mobile rig for
> >> our local Community Policing Volunteers. I'm not having much success
> >> with receive audio out of the rig (via the RJ45 microphone connector)
> >
> >You dont need the receive audio unless you want to operate in the AUTO
> >mode.   The audio has to be at least a few volts if you are going to use
> >it. Maybe use the speaker output through a 8 ohm to 600 ohm transformer
> >to up the drive voltage.
> >
> >bob
> >
> >
> >
> >---
> >You are currently subscribed to mic-e as: gws@smartt.com
> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >
> >
>
>
> ---
> You are currently subscribed to mic-e as: BRUNINGA@GREATLAKES.NADN.NAVY.MIL
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

24. [mic-e] MIM/Tripmate/Radio Shack HT 202 Tracker wiring.

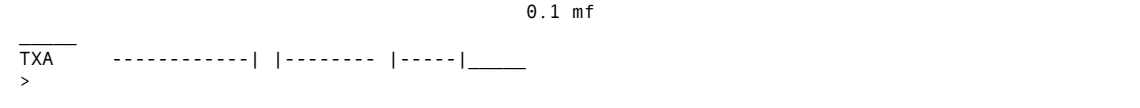
From: Richard Allen <rallen@svn.net>
Date: Mon, 22 Mar 1999 16:13:09 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-11972-1999.03.22-18.15.48--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you all so much for your help! The wiring was correct and done
following the instructions provided by N9UUR and aquired at his Web site
(www.execpc.com/~9uur/buildtrpmim.html).

The Radio Shack HT 202 would not work with the standard MIM HT wiring
instructions. The changes I had to make to make it work were simple,
but essential!

1. Remove the "HT" jumper on the MIM

2. Add a .1 mf capacitor in series with the TXA out of the MIM to the
sub-mini mic jack on the HT . . also add a 2.2k ohm resitor in series
with the PTT out of the MIM to the sub-mini jack side of the capacitor
previously mentioned.



```
                                                                    MIM
                                    |     HT MIC JACK
                                                          PTT     -----------\/\/\/--------
(Don't forget ground)                                                                  2.2K OHM

                                                        3. I also grounded the MIM's MIC ground to MIM
 ground.  Jumper pad J2 can be used; but, I used a jumper wire in the event that I would want to use the
 MIM with another radio and it would be easy to remove.

After some frustration and a LOT of testing and wiring checking and,
most importantly, help from other HAMS . . . it works!!!!

Again, thank you all for your help.   73/Richard
                                      Inverness, CA

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

25. [mic-e] Re: mic-e digest: March 22, 1999

```
From: jkest <jkest@ionet.net>
Date: Tue, 23 Mar 99 15:30:04 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-12161-1999.03.23-15.26.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
Thanks to all for the help using the MIC-E with the 202.
John, KD5GAM

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

26. [mic-e] Re: Mic-E Message Formats

```
From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Wed, 24 Mar 1999 08:04:40 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-12283-1999.03.24-08.07.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
The bytes you show below are the Information Field, not the Destination
Address which has the one-bit left-shifted seven bytes. The first byte
below is 60h, thus a valid Mic-E compressed report.

Ron

Russ Brown wrote:
>
> Hi Ron,
> I reviewed the 5 page documentation entitled "APRS Mic-Encoder Message
> Formats" to see if my new TH-D7A was conforming to the published
> protocol.
>
> I gathered various "raw packet" datapoints using my attached GPS in
> simulated mode so as to eliminate any SA variation.  I then tried to
> decode according to Figures 2 and 3 in the document but I'm at a loss to
> figure it out.  Here's the raw packet for N 34 10.929,  W 116 04.295,
> speed: 0.0  course: 357:    `,\9l ''/>
>
> When I convert to binary it doesn't look anything like what I would
> expect from fig. 2.  Shouldn't I see seven consecutive bytes with 0 on
> the right?  Shouldn't I see leading ones for North, West, and 100's of
> long?
>
> 01100000 00101100 01011100 00111001 01101100 00100000 00100111 00100111
> 00101111 00111110
>
> I must be overlooking something fundamental or doing something stupid.
> Could you take a moment to explain?
>
> Thank you very much,
> Russ Brown, KB6LUD

--
Ron Parsons
W5RKN

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
```

To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

27. [mic-e] Re: Mic-E Message Formats

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 24 Mar 1999 19:06:58 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: rparsons@realtime.net, wd5ivd@tapr.org
Message-ID: <LYR2619-12382-1999.03.24-19.08.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I checked and download the latest Mic-e information from the
WWW.TAPR.ORG host web site.

The mic-e.manual.pdf on TAPR web site said:

Bearing in degrees
Velocity in MPH   (WRONG)

I Then clicked on the link for
the APRS® Mic-Encoder Message Formats link:

Contributed by Alan Crosswell, N2YGK. (June 1997)
Updated by Ron Parsons, W5RKN (December 1998)

It Said:

Bearing in degrees;
Velocity in knots; (Correct)

Looks like we need to update the Mic-Encoder Message Formats
in the PDF manual the file mic-e.manual.pdf

I thought we had a update and change file around somewhere?

Per Bob Bruninga :

ALL APRS on-air formats are in Knots. (except wind speed is in MPH)
local display in other units are optional...

73
Bob
part of the old Mic-e doc team.

-----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

28. [mic-e] Re: Mic-E Message Formats

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 24 Mar 1999 23:43:09 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: <rparsons@realtime.net>, <wd5ivd@tapr.org>
Message-ID: <LYR2619-12400-1999.03.24-22.45.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

nautical MPH are still MPH right??? <grin>

Wes
Email: kd4rdb@usa.net
APRS: http://www.qsl.net/kd4rdb/aprs.htm
My Location:
Car: http://map.aprs.net/kd4rdb-9
Truck: http://map.aprs.net/kd4rdb-10
-----Original Message-----
From: Robert Winingham <kc5ejk@onramp.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Cc: rparsons@realtime.net <rparsons@realtime.net>; wd5ivd@tapr.org
<wd5ivd@tapr.org>

Date: Wednesday, March 24, 1999 8:05 PM
Subject: [mic-e] Re: Mic-E Message Formats

I checked and download the latest Mic-e information from the
WWW.TAPR.ORG host web site.

The mic-e.manual.pdf on TAPR web site said:

Bearing in degrees
Velocity in MPH   (WRONG)

I Then clicked on the link for
the APRS® Mic-Encoder Message Formats link:

Contributed by Alan Crosswell, N2YGK. (June 1997)
Updated by Ron Parsons, W5RKN (December 1998)

It Said:

Bearing in degrees;
Velocity in knots; (Correct)

Looks like we need to update the Mic-Encoder Message Formats
in the PDF manual the file mic-e.manual.pdf

I thought we had a update and change file around somewhere?

Per Bob Bruninga :

ALL APRS on-air formats are in Knots. (except wind speed is in MPH)
local display in other units are optional...

73
Bob
part of the old Mic-e doc team.

-----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----

You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

29. [mic-e] Display Speed with different APRS versions

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 25 Mar 1999 00:51:46 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: htaprs@lists.tapr.org
Message-ID: <LYR2619-12427-1999.03.25-00.54.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is the displayed speed using the same test data and the
MacAPRS and APRS+sa software versions. I would guess Win-APRS
will show same as MacAPRS.

Garmin III+ GPS connected direct to TH-D7a and driving at 65-68 MPH

	APRS+SA SPD	APRS+SA TRK	Mac APRS SPD	Mac APRS TRK
KC5EJK-7>RELAY>K5KJ*>SR4V3X:`|9k!hm>/>TESTING	66	281	57	281
KC5EJK-7>RELAY>K5KJ*>SR4V5T:`|:R!rm>/>TESTING	67	281	58	281
KC5EJK-7>RELAY>K5KJ*>SR4V6Y:`|;9!rm>/>TESTING	67	276	58	276

KC5EJK-7>RELAY>K5KJ*>SR4W0U:`|=V!rh>/>TESTING   67 281   58 281
KC5EJK-7>RELAY>K5KJ*>SR4W3Q:`|?$!hm>/>TESTING   66 281   58 281
KC5EJK-7>RELAY>K5KJ*>SR4W4S:`|?o!hm>/>TESTING   66 281   57 281

I even simulated a Mic-e packet from a different TNC/radio/computer
and sent the data to the TH-D7a.

I set my home TNC UNP parameter to SR4W4S and did a xmit of the
`|?o!hm data. The D7a showed a correct lon/lat and cse 281 s066m
the TESTING message and status of Enroute.

73

-----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

30. [mic-e] Re: Mic-E Message Formats

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Thu, 25 Mar 1999 06:17:57 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: wd5ivd@tapr.org
Message-ID: <LYR2619-12434-1999.03.25-06.20.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The pdf document has not been updated yet. Greg????????

The web page is correct (as far as I know, no guarantees that no errors
still lurk).

Ron

Robert Winingham wrote:
>
> I checked and download the latest Mic-e information from the
> WWW.TAPR.ORG host web site.
>
> The mic-e.manual.pdf on TAPR web site said:
>
> Bearing in degrees
> Velocity in MPH   (WRONG)
> ----
>
> I Then clicked on the link for
> the APRS® Mic-Encoder Message Formats link:
>
> Contributed by Alan Crosswell, N2YGK. (June 1997)
> Updated by Ron Parsons, W5RKN (December 1998)
>
> It Said:
>
> Bearing in degrees;
> Velocity in knots; (Correct)
> -----
>
> Looks like we need to update the Mic-Encoder Message Formats
> in the PDF manual the file mic-e.manual.pdf
>
> I thought we had a update and change file around somewhere?
>
> Per Bob Bruninga :
>
> ALL APRS on-air formats are in Knots. (except wind speed is in MPH)
> local display in other units are optional...
>
> 73
> Bob
> part of the old Mic-e doc team.

>
> -----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----
>
> ---
> You are currently subscribed to mic-e as: RPARSONS@REALTIME.NET
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

--
Ron Parsons
W5RKN

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

31. [mic-e] H E L P ! ! ! ……

From: "Gary W. Skett" <gws@smartt.com>
Date: Sat, 27 Mar 1999 11:14:14 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-12714-1999.03.27-13.17.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok, so I'm not as smart as I thought.....
I've tried interfacing to a Motorola MaxTrax 100...no joy.
Tried to connect it to a Icom IC-207H.......no joy.

The manual says the green PTT/RCV led should go off when no rcv audio....never goes out in auto mode, regardless whether I have anything hooked up to it or not!

The manual also makes me believe the PTT LED should go red when I push the PTT on the Microphone, or when the MIC-E transmits....The LED to the left of the MSG selector switch glows RED instead.....??

So far, I can't get a peep out of it, nor do any of the quick start test work...OK, what the heck am I doing wrong?

About the only thing that seems to work is the PWR/FIX LED. At least it flickers once in a while....

The personality module for the ICOM RJ45 (according to the manual) just doesn't seem right either....Are there any "updates" to the 1997 manual?

Just about ready to take a hammer to it or throw it in the junk pile! I thought this was supposed to be plug & play....oh wait a second...MS's plug & play doesn't work either!.....

Gary, VE7AS
gws@smartt.com

32. [mic-e] Re: H E L P ! ! ! ……

From: David Dobbins <ddobbins@localaccess.com>
Date: Sat, 27 Mar 99 12:08:05 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-12716-1999.03.27-14.08.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gary, I'm not going to be much help. I spent hours on mine, after
configuring the pinout to work with an Icom.

It all boiled down to me having the control knobs on wrong. When I
un-hosed that and got it properly aligned, the the control setting worked
and the whole unit worked. It's def not plug n play. Guess that's why
they call it a partial-kit. Dave.

David S. Dobbins/K7GPS
NWAPRS Coordinator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

33. [mic-e] Re: H E L P ! ! ! ……

From: Richard Allen <rallen@svn.net>
Date: Sat, 27 Mar 1999 19:17:03 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: gws@smartt.com
Message-ID: <LYR2619-12754-1999.03.27-21.19.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sounds as if the Auto/Manual switch could be in backwards? The recieve
led is always on in manual mode. Is your radio and HT? If so, check

out this document:

ftp://ftp.tapr.org/mic-e/misc/w32doc.txt

Good luck!

Richard KE6TNA
Inverness, CA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

34. [mic-e] New MIC-E Interface File Posted

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 28 Mar 1999 10:29:37 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-12826-1999.03.28-10.32.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In case no one noticed, Dan Welch has uploaded a new file to replace a
older information note on interfacing the MIC-E.

ftp://ftp.tapr.org/mic-e/misc

File: MIC_E2HT.ZIP

The files contained in MIC_E2HT.ZIP
describes a method of connecting a Mic-E to a
ICOM IC-W32A, Radio Shack and similar
Hand-Held Transceivers

This package replaces the earlier w32doc.txt file
originally in the "mic-e\misc" directory.

 - Dan W6DFW
 Dan W6DFW

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

April 1999

Original source file: mic-e.9904
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9904

1. [mic-e] MIM

From: Richard Allen <rallen@svn.net>
Date: Thu, 01 Apr 1999 08:18:18 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13514-1999.04.01-10.21.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can anyone tell me why my symbol is not appended to my position --thus I
do not show up on the map -- though the mim in programed for one and the
GPS is putting out a proper fix and it is being transmitted (As viewed
by my base station TNC) and the bt is showing up on the Status page?

Thank you for your help. Richard/KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Re: MIM

From: Robert Winingham <kc5ejk@onramp.net>
Date: Thu, 1 Apr 1999 12:10:01 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13520-1999.04.01-12.12.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Can anyone tell me why my symbol is not appended to my position --thus I
>do not show up on the map -- though the mim in programed for one and the
>GPS is putting out a proper fix and it is being transmitted (As viewed
>by my base station TNC) and the bt is showing up on the Status page?
>
>Thank you for your help. Richard/KE6TNA

You forgot to send a soil sample :-)

73

Bob   Texas A&M

-----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Re: MIM

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Thu, 1 Apr 1999 13:44:34 -0500 (EST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13522-1999.04.01-12.48.09--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Thu, 1 Apr 1999, Richard Allen wrote:

> Can anyone tell me why my symbol is not appended to my position --thus I
> do not show up on the map -- though the mim in programed for one and the
> GPS is putting out a proper fix and it is being transmitted (As viewed
> by my base station TNC) and the bt is showing up on the Status page?

If you program the MIM to $GPRMC, then it will reformat the data into an
APRS packet with position, course and speed including the SYMBOL. If you
specify any other GPS sentence, then it will send only the RAW NMEA data,
which contains no symbol info.

de WB4APR, Bob

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: MIM

From: Richard Allen <rallen@svn.net>
Date: Thu, 01 Apr 1999 22:09:38 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13582-1999.04.02-00.13.54--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

No Symbol and specifying GPS string $GPRMC in MIM. MY position as
received by my home station reads:

KE6TNA-4>APRS,RELAY,WB6KSS-3'/V:054216,V,3805.942,N,12252.11.W,0.000,0.0,180895.15.9,E/GPS
FIX

Hey, it is working again!

My position does show up with the symbol (runner)sometimes ; but, I have
to re-program the MIM with the SAME symbol and GPS string. I change
nothing else. Just reprogramed and powered up again and it works. . .
for awhile.

Thank you very much for your help. 73/Richard KE6TNA Inverness, CA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] MIM Symbol still unpredictable

From: Richard Allen <rallen@svn.net>
Date: Sat, 03 Apr 1999 07:46:08 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13777-1999.04.03-09.49.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a MIM wired into a Tripmate. It works fine some times but . . .
even though I have the MIM programed for the $GPRMC GPS sting at a
period of about one minute the unit transmits the position report:

KE6TNA-4>APRS,relay,wide'/V:,054216,/,3805.942,N,12252.11.W,0.000.0,18089.15.9,E/GPS
FIX

This seems to happen when I power the unit down and then up again after
it has given the correct position report, ie., it shows on my base
station position report.

Any ideas? Richard/KE6TNA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: MIM Symbol still unpredictable

From: Steve Dimse <sdimse@netrox.net>
Date: Sat, 3 Apr 1999 13:19:05 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13804-1999.04.03-12.22.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 4/3/99 10:46 AM Richard Allen (rallen@svn.net) wrote:

>I have a MIM wired into a Tripmate. It works fine some times but . . .
>even though I have the MIM programed for the $GPRMC GPS sting at a
>period of about one minute the unit transmits the position report:
>
>KE6TNA-4>APRS,relay,wide'/V:,054216,/,3805.942,N,12252.11.W,0.000.0,18089.
>15.9,E/GPS
>FIX
>
This is a badly malformed packet. Did this really come out of the MIM?
Unfortunately, the source code for this unit is unavailable for review or
repair, it is proprietary to Bob Bruninga. As far as I know, no one is
working on it any longer, so if it is a bug you are probably stuck with
it. Even if Bob did come up with an update, you can bet it would cost you
money!

Bob left this little issue out of his review of tracker options, where he
trashed the Pic-E. With this unit, the source code is open for all to see

and repair, and when a bug is found and fixed, it can be reprogrammed by
the user for free! Already the software is able to change transmission
rate when stationary, and to supress transmissions when the GPS is not
locked. Lots of people are working on more features, join the picsig to
hear more about ongoing development. One person even has it working on
receive, though it will never be like a real TNC.

Costs less too!

Steve K4HG

APRS is a registered trademark of Bob Bruninga and APRS Software. Mic-E
is a trademark of Bob Bruninga and APRS Software.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: MIM Symbol still unpredictable

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Sat, 3 Apr 1999 10:54:50 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13811-1999.04.03-12.58.09--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am into APRS and have a Mic-E encoder. I keep hearing about PIC-E and
MIM.

Can someone educate me and others new to this game as the differences of
MIC-E, PIC-E and MIM.

I never knew there was anything other than Mic-E until after I purchased one
and subscribed to this reflector.

Thanks,

Herb, KB7UVC
NW APRS West Sound Coordinator
Lat/Long 47 26' 05" N / 122 53' 35" W
http://maps.aprs.net/kb7uvc

> -----Original Message-----
> From: bounce-mic-e-3832@lists.tapr.org
> [mailto:bounce-mic-e-3832@lists.tapr.org]On Behalf Of Steve Dimse
> Sent: Saturday, April 03, 1999 10:19 AM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] Re: MIM Symbol still unpredictable
>
>
> On 4/3/99 10:46 AM Richard Allen (rallen@svn.net) wrote:
>
> >I have a MIM wired into a Tripmate. It works fine some times but . . .
> >even though I have the MIM programed for the $GPRMC GPS sting at a
> >period of about one minute the unit transmits the position report:
> >
> >KE6TNA-4>APRS,relay,wide'/V:,054216,/,3805.942,N,12252.11.W,0.000
> .0,18089.
> >15.9,E/GPS
> >FIX
> >
> This is a badly malformed packet. Did this really come out of the MIM?
> Unfortunately, the source code for this unit is unavailable for review or
> repair, it is proprietary to Bob Bruninga. As far as I know, no one is
> working on it any longer, so if it is a bug you are probably stuck with
> it. Even if Bob did come up with an update, you can bet it would cost you
> money!
>
> Bob left this little issue out of his review of tracker options, where he
> trashed the Pic-E. With this unit, the source code is open for all to see
> and repair, and when a bug is found and fixed, it can be reprogrammed by
> the user for free! Already the software is able to change transmission
> rate when stationary, and to supress transmissions when the GPS is not
> locked. Lots of people are working on more features, join the picsig to
> hear more about ongoing development. One person even has it working on
> receive, though it will never be like a real TNC.
>
> Costs less too!
>

> Steve K4HG
>
> APRS is a registered trademark of Bob Bruninga and APRS Software. Mic-E
> is a trademark of Bob Bruninga and APRS Software.
>
>
> ---
> You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] MIM/MIC-E/PIC-E Question (was Re: MIM Symbol still unpredictable)

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sat, 3 Apr 1999 19:29:53 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13864-1999.04.03-19.34.01--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>I am into APRS and have a Mic-E encoder. I keep hearing about PIC-E and
>MIM.
>
>Can someone educate me and others new to this game as the differences of
>MIC-E, PIC-E and MIM.
>
>I never knew there was anything other than Mic-E until after I purchased one
>and subscribed to this reflector.
>

Hi Herb.

Basically....

The MIM is a standalone PIC chip that provide AX.25 UI packet framing, APRS compressed encoding, and also does the modem modulation all in one PIC chip (plus a few other cool things). Bob, WB4APR, now handles this item based on some recent messages. See that previous message for details on the availability of the MIM module.

MIC-E. Three years ago PacComm approached TAPR to help with the development of a standalone tracker which uses the MIM module that Clements Eng was mfg at that time. After a years worth of work by PacComm, TAPR, a small development team, and beta test group of 50 the APRS MIC-Encoder rolled out. It provides MIM/MIC-E functionality in a rolled unit with enclosure and interfaces all packaged together. This allows you to configure it for different radio interfaces, plus it has some other bells and whistles on it. The web page for the MIC-E is http://www.tapr.org/tapr/html/Fmic-e.html There is also a MIC-E list on our list system (http://www.tapr.org/cgi-bin/lyris.pl) that supports the kit and the mail archives is a good resource (http://www.tapr.org/cgi-bin/wilma). The MIC-E page points to the latest specification on the APRS MIC-E protocol. The Kenwood HT uses the same, if a little different, protocol. TAPR supports a list for the Kenwood HT as well along with all these other APRS related lists (http://www.tapr.org/cgi-bin/lyris.pl?enter=htaprs)

The TAPR PIC-E project was started about a year ago as a AX.25 transmitting device to allow people to do interesting things with and learn more about PIC programming and AX.25 packet radio. In its current form it is a PIC chip and Modem chip with a basic interface. It isn't a TAPR APRS MIC-E or a MIM module. I have read a message recently saying that, but it is not a clone of the MIC-E or MIM. There is one of several software modules that eliminates MIC-E like functionality based on the protocol specification that was published with the MIC-E when PacComm and TAPR released the joint APRS MIC-E kit. You should check the web page and the ftp site for what other modules are already written and the PICSIG list for information on development issues. The web page for it is: http://www.tapr.org/tapr/html/Fpice.html

The MIC-E is currently sold to the amateur radio community via TAPR. PacComm is handling the commercial aspects of the unit. Last I checked we still have some 40-50 units in stock at the office from the last large order we received in Nov/Dec.

The PIC-E just finished its evaluation stage. TAPR sold 50 eval units to

members and took feedback on the unit before continuing on with the
production kit. The development group just finished working on that
feedback and we are starting to gear up for providing PIC-E kits around or
before (I hope) Dayton. Orders are being taken now for it at the office to
gage the number of kits we need to do in the first round.

Each of the units described above provides something different. The MIM
module is very small and perfect for a lot of applications where weight and
power consumption is a consideration (i.e ballons, runners, etc). The APRS
MIC-E is a great standalone tracker for mobile use. The TAPR PIC-E(ncoder)
is a development/educational/experimenters package that will (I hope)
provide a basis for many future and next generation projects well beyond
what the MIC-E or MIM do as APRS only devices.

As a side note: As many of you understand, PIC development is going to
play a big part in a lot of future projects that TAPR and the hobby in
general rolls out in the next several years. The more we can do to bring
the community up to speed on the capabilities of these devices the better
off we will be in having talent around to support and create new devices
for the rest of us to play with. (end of soap box :-)

Hope that helps answer your question Herb.

Cheers - Greg Jones, WD5IVD
President TAPR

APRS® is registered to Bob Bruninga, WB4APR. Mic-Encoder is a trademark of
Bob Bruninga,
WB4APR.

Greg Jones, WD5IVD
        President TAPR (http://www.tapr.org)
        PhD Candidate, Instructional Technology, UT Austin

email: wd5ivd@tapr.org
web: http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] COMM Link Failure

From: Mike Warner <mdwarner@paonline.com>
Date: Sun, 04 Apr 1999 10:58:40 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13933-1999.04.04-10.11.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello All,
 Can anyone help me with troubleshooting Comm Link Failures on my MIC-E.

This has been an on going off and on problem since I assembled this
device.

Sometimes it works, sometimes (most times) it doesn't.
I was successful at PERMing this unit one time and now it refuses to
allow an updated PERM. This is even when I finally succeed at connecting
to it.

I have tried 3 different PC's and the problem seems to be the same on
any of these.

I sure would like to get this unit working so I can experiment with it.

If this was covered here before, I apologize for the bandwidth. I am new
to this list.

TNX, 73

N3XPD

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: COMM Link Failure

From: George Carr <semcor@telebyte.com>
Date: Sun, 04 Apr 1999 13:35:32 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-13975-1999.04.04-15.37.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mike Warner wrote:
>
> Hello All,
> Can anyone help me with troubleshooting Comm Link Failures on my MIC-E.
>
> This has been an on going off and on problem since I assembled this
> device.
>
> Sometimes it works, sometimes (most times) it doesn't.
> I was successful at PERMing this unit one time and now it refuses to
> allow an updated PERM. This is even when I finally succeed at connecting
> to it.
>
> I have tried 3 different PC's and the problem seems to be the same on
> any of these.
>
> I sure would like to get this unit working so I can experiment with it.
>
> If this was covered here before, I apologize for the bandwidth. I am new
> to this list.
>
> TNX, 73
> N3XPD
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

You didn't mention the RESET but you probably did it.

Don't forget to RESET. Thats the extent of my helpfulness.

73's
N7GME

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Mic-E Background.

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 4 Apr 1999 19:19:03 -0400 (EDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>
Message-ID: <LYR2619-14007-1999.04.04-18.22.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Pic-E: Basic Mic-E clone... Reverse engineered to cut costs and
>   make source code available and avoid royalties to TAPR Mic-E
>   developers. Provides developers platform for further amateur
>   development of new AX.25 ideas... etc

For what its worth, the royalty above was $0.00. I designed the Mic-E
in 1994 and teamed with Clement Eng to produce it in 95 for around $60.
Clement farmed out the board layout to PacComm who wanted to sell it
commercially. Cost rose to $90, my share dropped to $5. We teamed with
TAPR to make it available for amateurs and so they could handle the kit
headaches. Cost rose to $150. Everyone in the long food chain put in
lots of effort and diserves their share, although my share for 4 years of
work for my BABY was down to only $3.

In Jan 1998, Greg Jones approached me saying that TAPR wanted to produce a
cheaper Mic-E and make the source code public domain. With hesitation,
I suggested I would go along as long as I still got something out of it,
to retain my rights to its design. Cold Silence. TAPR never broached the
subject again until they caught me by surprise with their "MYSTERY
HARDWARE #2" (the Pic-E) at DCC 98.

I was shocked by the backhandedness, but I offered TAPR the use of
the APRS/Mic-E Logos for only $2 per Pic-E of which I WOULD DONATE
THE ENTIRE $2 back to TAPR (Net Royalty = $0) I only wanted to protect
the Mic-E design if I was to ever see any protection from future
commercial exploitation of APRS or the Mic-E.

TAPR's response surprised me. Instead of a win-win for both of us, They
sought legal council and chose to alienate me and drop any mention of
APRS and Mic-E from their Pic-E docs or to credit my 4 years of design and
engineering support for the Mic-E.

APRS is one of the neat things in Amateur Radio today. TAPR and APRS
have enjoyed a good mutually beneficial relationship. I am disappointed
at TAPR's willingness to slap the face of its volunteers that feed it...

de Bob, WB4APR

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Open Letter to Bob, WB4APR (was Re: Mic-E Background)

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 5 Apr 1999 01:18:29 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14087-1999.04.05-01.21.48--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

SIG members:

I am sorry to bother the lists with this message; however, I feel that it
must be posted on the lists in response to Bob's message.

Please feel free to delete if you don't like this type of message.

Cheers - Greg

Bob -- now that you have accused TAPR and myself about wrongful
dealings....let me cover a few points in your reply to your own message
below. Not sure were your stream of writing came from, but I feel that I
need to respond to it in public now.

I would have preferred you sent me a private message about this if you
somehow felt slighted by TAPR or myself, but since you felt public
discussion was called for.....

>> Pic-E: Basic Mic-E clone... Reverse engineered to cut costs and
>>   make source code available and avoid royalties to TAPR Mic-E
>>   developers. Provides developers platform for further amateur
>>   development of new AX.25 ideas... etc
>
>For what its worth, the royalty above was $0.00. I designed the Mic-E
>in 1994 and teamed with Clement Eng to produce it in 95 for around $60.
>Clement farmed out the board layout to PacComm who wanted to sell it
>commercially. Cost rose to $90, my share dropped to $5. We teamed with
>TAPR to make it available for amateurs and so they could handle the kit
>headaches. Cost rose to $150. Everyone in the long food chain put in
>lots of effort and diserves their share, although my share for 4 years of
>work for my BABY was down to only $3.

Thanks for sharing this information with us. I don't think any of us ever
knew the exact amount of money you received from the MIM sells to
PacComm/TAPR for the MIC-E unit production. So, thus far on the MIC-E you
have received approx $1,176. Sorry that your feel that your deal with the
supplier of the MIC-E PIC chip was not fair. However, this is an issue
between you and the supplier of the chip not TAPR on how much you received

from MIC-E MIM distribution.

I think the PSR details how everyone was involved with various aspects of the MIC-E project over its development life better then I could in this e-mail message. Those involved in the development effort certainly remember the development process and why the cost increased in the end.

>In Jan 1998, Greg Jones approached me saying that TAPR wanted to produce a
>cheaper Mic-E and make the source code public domain. With hesitation,
>I suggested I would go along as long as I still got something out of it,
>to retain my rights to its design. Cold Silence. TAPR never broached the
>subject again until they caught me by surprise with their "MYSTERY
>HARDWARE #2" (the Pic-E) at DCC 98.

You are combining several things into one flow of consciousness which isn't correct.

1. At the end of the MIC-E development before it rolled out, I started a discussion with you and Gwyn at PacComm about doing a small/cheaper version of the MIC-E using the MIM. That discussion like many new project concepts just stopped. Gwyn was busy working on other stuff and you showed no interest as the MIC-E was rolling out and you had other projects happening.

A few month after this discussion it became obvious that another MIM based unit wasn't going to happen for two logical business reasons.

Side note: Let's make it clear that this MIC_E and MIM topic we are discussing here isn't about amateur radio volunteerism, it is about a for profit company selling a product to another company that is mfg a product for others to buy. The other issue over APRS (tm) or MIC-E (r) is discussed in the letter below.

a. The first reason was the requirement that TAPR pay for the entire MIM order ahead of time. We do 100 unit lots with PacComm which means we had to pay approx $3000 up front for the one chip. When we tried to cut the cost by suggesting TAPR could get the PIC chips less than the supplier, they didn't want to do this. When it was suggested to allow us to burn the MIM PIC under a license that wouldn't allow us to distribute the executable code to allow smaller qty to be purchased and then kept in inventory at one time, they didn't want to do this.

TAPR on large orders like this normally can float the payment with the supplier/distributor long enough (30-60 days is the normal business deal we have with distributors) to get income from sales in to cover the parts order.

b. The second and much more important factor was that at the very end of the MIC-E development, all support and development for the amateur version of the MIM had stopped completely. It wouldn't make sense for TAPR to do another version of a MIC-E based MIM kit that has no future firmware upgrades and that support was going to be very limited on. That would be investing in a design that might never recover the cost of development and testing. Add to this the fact that getting replacement MIC-E MIM PIC chip for members who damaged there units was impossible. Instead of being able to get MIM chips from PacComm via the supplier (because PacComm couldn't get any from the supplier) we had to tell our members to call the supplier directly. In some cases I believe they never were able to get replacement chips.

2. The issue of open source code was never discussed in these conversations regarding the stripped down, lower cost MIC-E unit (that never happened). I have never had a problem with the source for the MIC-E being kept hidden. That was the call of the supplier of the chip. There are other projects within TAPR that the authors wish to keep the source closed. (side note: TAPR as an organization doesn't currently have a stated position on closed vs open source, although we are discussing it currently.) What we (Gwyn and I) wouldn't agree to was the MIC-E protocol specification not being published. Gwyn and I had to threaten termination of the project to get the MIC-E protocol specification published with the kit. While we didn't care about the source being closed or open, the protocol had to be published in order to be legal on the amateur radio bands since it is using compressed data in the transmission. We couldn't very well offer a kit that was not legal to use on the amateur radio bands.

3. Now to the PIC-E issue. The PIC-E is much more than a MIC-E or MIM. While one module does emulate the APRS MIC-E functionality it is neither a MIM or MIC-E. This was covered in the letter I am including for everyone to read below. If we want to make this an open blister for everyone to see, I am more than happy to help the truth be known. We have tried to be

above board on this whole issue the entire time.

I understand that you are now selling the MIM chip and you might now somehow feel that the PIC-E threatens future sells of that unit; however, again this is a business issue and not a amateur radio volunteer issue.

>I was shocked by the backhandedness, but I offered TAPR the use of
>the APRS/Mic-E Logos for only $2 per Pic-E of which I WOULD DONATE
>THE ENTIRE $2 back to TAPR (Net Royalty = $0) I only wanted to protect
>the Mic-E design if I was to ever see any protection from future
>commercial exploitation of APRS or the Mic-E.

I sent the letter attached below to you in response to your thoughts above the end of last year. I wanted to work on a much longer range plan than just the PIC-E, but something that would cover all TAPR development and still support APRS efforts within TAPR. I don't mind that everyone can read it now. I attach it as a open letter to the APRS community at large so they can better understand the issue at hand.

>TAPR's response surprised me. Instead of a win-win for both of us, They
>sought legal council and chose to alienate me and drop any mention of
>APRS and Mic-E from their Pic-E docs or to credit my 4 years of design and
>engineering support for the Mic-E.

We never sought legal council on this issue. Since you never replied back to the letter I sent in December and then asked you about again in January we formed the current TAPR philosophy to make sure we give you full credit for your APRS (tm) and MIC-E (r) as the laws requires on modules and docs that discuss APRS or MIC-E. The PIC-E web page (http://www.tapr.org/tapr/html/Fpice.html) gives you credit at the bottom. When the production docs for the PIC-E kit are completed you will be given credit again for APRS (tm) and MIC-E (r) in reference to the emulation of that mode.

I had planned to send you a private e-mail later this week to ask again about the issue based on the message you posted yeterday, but since you have sought to open this up on the APRS and MIC-E lists before I had a chance to have time to send something on Monday, I am now writing this now. I would be more than happy to take this back to private e-mail and see what we might work out.

>APRS is one of the neat things in Amateur Radio today. TAPR and APRS
>have enjoyed a good mutually beneficial relationship. I am disappointed
>at TAPR's willingness to slap the face of its volunteers that feed it...

I agree, but disagree that TAPR has slapped you or anyone else in the face.

Greg Jones, WD5IVD
President, TAPR

** Letter on December 1st, 1998 **

Hello Bob,

Sorry about the amount of time it has taken me to take up this very important issue regarding your trademarks.

Your original proposal was to have TAPR provide you with a $2 royalty per PIC-E unit sold. The issue we had with this was that the compatible APRS MIC-E (tm) protocol module is a very small portion of the potential software to be made available for the PIC-E unit. The PIC-E is not a replacement for the MIC-E, which I think you understand that. TAPR expects to continue to purchase MIC-E units from PacComm for those that need the functionality that this unit offers which the PIC-E will not be able to offer. We just received another 100 MIC-E units from PacComm this month for our inventory.

Later, you graciously offered to license the use of the APRS trademarks for the Pic-E for $2 per item, which you would donate all the proceeds back to TAPR. This is great, but this only handles this one issue and not the future. Let's take the time and try to get this thing figured out for the long term.

Without getting into the wording of a final agreement -- basically you wish TAPR to be licensed under your APRS trademark in order to give you credibility and leverage in your potential commercial endeavors. This is fine and in exchange we are asking to be given unlimited use of the

trademarks in all of our non-commercial amateur radio settings. For this we will recognize your trademark in these related projects and give you the APRS tag line at the bottom of all TAPR APRS related items, documents, and advertisements on these projects. If some individual or company comes to TAPR to license an APRS related project, we will direct them to you in order to handle the commercial trademark royalty issue for the TAPR APRS project in question. This is how we have handled related issues in several other projects.

What this means is that you basically grant TAPR the use of the APRS trademarks for the (typical) non-commercial, educational, and Amateur Radio markets that TAPR has historically served.

By fostering easier development of APRS related projects within TAPR without the worry of trademark infringement issues, more APRS projects should be possible. Hopefully we will be doing something with the MicroSat APRS concept as a kit project in 1999. Future APRS related projects benefit you directly by more people licensing your software which makes you more money than would a simple royalty from TAPR. You also get the additional support of TAPR using APRS in its related projects and pointing those back to your work.

Just as a point of reference, TAPR APRS related projects thus far have been the MIC-E and the APRS SIGs. Currently we have only sold 292 MIC-Es with the 100 in stock to sell sometime over the next year or so. I don't expect the MIC-E compatible software module for the PIC-E to do above 500 total units over its lifetime. The APRS SIG, as you pointed out, is a point of presence in the interest area and provides name recognition for TAPR while also allowing things like the APRS QSY to take place under the TAPR banner. Last time I checked only about 10-15% of APRS SIG members are actual supporters of TAPR as members.

Please let me know if you find this acceptable and we can pursue the final wording of an agreement.

Cheers - Greg

P.S> If you like Bob, I'll help you design a APRS technologies web page that hilights your commercial potential that our pages can point to. That would be a first step in a point of presence on consulting. Have you thought about starting a consulting company like "GPS Mobile Tracking Consultants" or something like that. We can't host it on TAPR.ORG due to our agreement with our ISP, but you probably have some other place you might put it.

==========

APRS® is registered to Bob Bruninga, WB4APR. Mic-Encoder is a trademark of Bob Bruninga, WB4APR.

Greg Jones, WD5IVD
President TAPR (http://www.tapr.org)
PhD Candidate, Instructional Technology, UT Austin

email: wd5ivd@tapr.org
web: http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: Open Letter to Bob, WB4APR (was Re: Mic-E Background)

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Mon, 5 Apr 1999 12:25:01 -0400 (EDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: aprssig@nadn.navy.mil, aprsnews@nadn.navy.mil
Message-ID: <LYR2619-14177-1999.04.05-11.28.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry Greg, TAPR and the SIGS

I guess I thought that I had agreed to your proposal that TAPR use APRS and Mic-E to our mutual benefit and that everything was OK. I welcome the Pic-E as a development platform for more APRS applications, I love thinking up new applications and this is a well needed addition.

I was just surprised at the apparent effort to avoid any reference to the Mic-E in its promotion except a footnote. TAPR does great work and is a an invaluable resource to the amateur community. I strongly support it.

Yes, I am guilty of feeding my adiction to Ham radio from the $3 per Mic-E sold. But, if half the people at a HAMFEST were not selling anything, then there would be nothing for the rest of us to buy...

No need to coment on the rest of the garbage.

de WB4APR

P.S. Yes, the unsung hero's of TAPR are Greg jones, Steve Dimse, Steve Bible, Ron Parsons and the many many others who do this as pure volunteers.

Some of us can afford our HAM Radio adictions independently..., some of us need a little return to justify the hours...

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] Re: Mic-E Background.

From: John Hansen <hansen@fredonia.edu>
Date: Mon, 05 Apr 1999 21:19:21 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14254-1999.04.05-20.47.01--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 07:19 PM 4/4/99 -0400, you wrote:

>I designed the Mic-E
>in 1994 and teamed with Clement Eng to produce it in 95 for around $60.

----------snip----------

I really don't plan to become significantly involved in this discussion except to make one or two points concerning the development of the PIC-E that have not been shared here. Given the nature of Amateur Radio, the only way for Bob to fully protect his intellectual property rights in the MIC-E would have been to obtain a patent. I fully understand why he chose not to do this; I considered this approach myself with regard to another product last year and balked when I got to the up front cost of filing for a patent.

However, with the MIC-E, using a "trade secret" approach is infeasible because in order to send encoded transmissions by amateur radio, one is legally required to make public the code that is being used. Once you make the protocol public, it is difficult to keep others from developing similar systems. In fact, the notice that appeared on the MIC-E protocol page of the MIC-E manual specifically invited non-commercial experimentation and development. The truth of the matter is that even if TAPR had not become involved in the PIC-E development at all, there would be a MIC-E clone by now, because I was developing one independently.

The only way I found out that TAPR was also involved was by talking to Greg at Dayton last year. At the time, I thought that the MIC-E was a cash cow for TAPR and I was very concerned that by releasing my design, I'd be stepping on their toes. I didn't want to do this without at least warning them first, so I talked with Greg about it. Much to my surprise, there was a completely separate group also working on a device that would perform MIC-E functions. The fact of the matter is, I had a working model using a 16F84 and an MX614 before I met with anyone else who was working on the project, and Byon and Dan had a working design before they met me.

I think that Greg inadvertently misspoke when he said the PIC-E was developed through a reverse engineering process. At the time I developed

my initial design, I'd never even seen a MIC-E. The only thing I had to go on was the published protocol. In fact the PIC-E design really is substantially different than the MIC-E. It separates the modem function and implements it with a modem chip, and uses a flash-programmable PIC rather than a one time programmable chip. It also includes the capability to reprogram the unit using only a standard PC. In addition, it does away with most of the switches and instead implements them in user-settable firmware. It is probably fair to say there was some reverse engineering (either intentional or inadvertant) that went on in the radio interfacing circuit, but this is a rather small part of the overall design.

Over the past year, I've talked to a number of people who were also at various stages of development on their own designs, most of whom gave up in the face of the impeding PIC-E. My point is that even if TAPR had not pursued this, there would be at least one, and probably several MIC-E clones by now. I wouldn't be surprised if there are additional clones that appear in the next year. The only thing that might prevent that is that you can now build your own unit based on the PIC-E design. The hardware design and PIC code are readily available for anyone who wants to give it a go. For those who have wondered about the availability of unpopulated PC boards, I do hope TAPR makes these available. However, I built two of these units using point to point wiring techniques on perfboard before there was a PIC-E PC board. Byon and Steve (Bible) did likewise. So if that's your preference, there's really no reason you can't take the schematic (make any improvements you like) and roll your own on a piece of Radio Shack perfboard.

I have a great deal of sympathy for Bob's position here. Independent inventors ought to be able to find a way to capture at least a portion of the value that they have created. In the current legal environment, however, the only two ways to accomplish this are through patents and trade secrets. Given the FCC's position on transmitting undocumented codes, the trade secret option is essentially a non-starter for this type of amateur radio project.

John, W2FS

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] TAPR Board of Directors Election Reminder

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 8 Apr 1999 12:30:22 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14732-1999.04.08-12.34.53--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This is a reminder to all TAPR members* that the TAPR Board of Directors Election is happening until April 15th.

The current PSR supplied the necessary information for voting electronically or via the mail.

If you don't know the web address or have lost your voter verification number, then please send e-mail to tapr@tapr.org or call the TAPR office (940) 383-0000 and Dorothy can supply you with the necessary information for voting on-line.

The following people this year are running for the TAPR board of directors.

        Steve Bible, N7HPR
        Steve Dimse, K4HG
        Bob Hansen, N2GDE
        Steve Stroh, N8GNJ

Your vote as a member is important -- be sure to vote!

Cheers - Greg Jones, WD5IVD
President, TAPR

---
* membership current as of or before January 1, 1999 to be able to vote.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
---
e-mail: tapr@tapr.org   web: <http://www.tapr.org/>

ftp: ftp.tapr.org
phone: 940-383-0000   fax: 940-565-2544

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

16. [mic-e] MicE and Up/Down Switch

From: Your Name <bpatt@worldnet.att.net>
Date: Thu, 08 Apr 1999 20:25:57 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14810-1999.04.08-22.29.16--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi...Can the MicE be programed to key the up/down switches found on the
Mic input so as to enable a channel change to the APRS frequency and
then a return to the voice repeater frequency? I have just received the
kit but don't readily see how it can be done.
Thanks...W9JIU...Jack

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

17. [mic-e] Re: MicE and Up/Down Switch

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Fri, 9 Apr 1999 09:15:57 -0400 (EDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14866-1999.04.09-08.19.19--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Thu, 8 Apr 1999, Your Name wrote:

> Hi...Can the MicE be programed to key the up/down switches found on the
> Mic input so as to enable a channel change to the APRS frequency and
> then a return to the voice repeater frequency? I have just received the
> kit but don't readily see how it can be done.

If you can find a QSY button or wire to your syntehsizer or MEMO button,
then it is conceivable that you could diode OR the PTT to that same wire
and set TXD long enough so that the radio would QSY for the duration of
the packet. But there are a lot of IF's there.

de WB4APR

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

18. [mic-e] Re: MicE and Up/Down Switch

From: Dan Minear <dminear@tridentms.com>
Date: Fri, 9 Apr 1999 11:03:15 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-14906-1999.04.09-14.04.52--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

How about having 2 memories in the radio? One would be the standard
repeater offset for voice QSO, and the other would have an odd split
that would transmit on the APRS freq and rx on the voice repeater?

When you wanted to talk voice you switch over, and when you just want to
monitor you leave it on the odd split.

-Dan

>----------
>From: Bob Bruninga[SMTP:bruninga@nadn.navy.mil]
>Sent: Friday, April 09, 1999 6:15 AM
>To: TAPR MIC-E & PIC-E Special Interest Group
>Subject: [mic-e] Re: MicE and Up/Down Switch
>

>On Thu, 8 Apr 1999, Your Name wrote:
>
>> Hi...Can the MicE be programed to key the up/down switches found on the
>> Mic input so as to enable a channel change to the APRS frequency and
>> then a return to the voice repeater frequency? I have just received the
>> kit but don't readily see how it can be done.
>
>If you can find a QSY button or wire to your syntehsizer or MEMO button,
>then it is conceivable that you could diode OR the PTT to that same wire
>and set TXD long enough so that the radio would QSY for the duration of
>the packet. But there are a lot of IF's there.
>
>de WB4APR
>
>
>
>---
>You are currently subscribed to mic-e as: dminear@tridentms.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

19. [mic-e] Re: MicE and Up/Down Switch

From: Jack Patterson <bpatt@worldnet.att.net>
Date: Sat, 10 Apr 1999 09:50:59 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-15018-1999.04.10-11.54.30--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you for your suggestions. The transceiver that I am working with
is an Alinco 110T. The frequency /memory selection from the up/down
switches , pins 3 and 4, require a ground to activate a change of
frequency or memory location. I see that the personality header does
have those pins available. Ideally when PTT is used then a ground would
be applied to pin 3...causing the receiver to go up and then when unkey
happens we need a ground on pin 4 to cause a return to the original
frequency. This way I can use one xceiver for my tracking function and
normal repeater operation.

The method of doing this is the problem from the PTT operation. Maybe I
need something other than the MIC-E to obtain the results that I am
looking for.

73, Jack...W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

20. [mic-e] Re: MicE and Up/Down Switch

From: Jack Patterson <bpatt@worldnet.att.net>
Date: Sat, 10 Apr 1999 09:54:52 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-15019-1999.04.10-11.58.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thank you Dan for your suggestion. I guess I could do that...I am using
an Alinco 110T and I think that I can use non standard offsets. At least
use an adjoining memory location that would "reach".

So I will investigate that operation.

cul 73, Jack..W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

21. [mic-e] TAPR Mic-E Kit BT-1

From: "Ernest A. Baldini" <ebaldini@earthlink.net>
Date: Tue, 13 Apr 1999 09:49:33 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-15713-1999.04.13-08.53.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK, you members of the "Secret Cult of the Mic-E", will some one tell me
the battery BT-1 type? Bought one Mic-E from TAPR at Orlando, FLa
Hamfest then won one at the APRS session drawing! Talked to Gwynn Reedy
at Pac-Comm and he couldn't help. Have assembled one Mic-E and starting
on second one. Can find no reference to the BT-1 other than a mention on
the TAPR Mic-E page that the battery is not supplied. Why not give the
type the buyer has to supply? Am I missing something?
--Ernie Baldini, K4RBD

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

22. [mic-e] Re: TAPR Mic-E Kit BT-1

From: "Ronald G. Parsons" <rparsons@realtime.net>
Date: Tue, 13 Apr 1999 08:56:29 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-15714-1999.04.13-09.00.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The battery BT1 is only for your GPS. It's provided as a convenience IF
your GPS needs an external battery. And of course, its type depends on
your GPS.

"Ernest A. Baldini" wrote:
>
> OK, you members of the "Secret Cult of the Mic-E", will some one tell me
> the battery BT-1 type? Bought one Mic-E from TAPR at Orlando, FLa
> Hamfest then won one at the APRS session drawing! Talked to Gwynn Reedy
> at Pac-Comm and he couldn't help. Have assembled one Mic-E and starting
> on second one. Can find no reference to the BT-1 other than a mention on
> the TAPR Mic-E page that the battery is not supplied. Why not give the
> type the buyer has to supply? Am I missing something?
> --Ernie Baldini, K4RBD
>
> ---
> You are currently subscribed to mic-e as: RPARSONS@REALTIME.NET
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

--
Ron Parsons
W5RKN

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

23. [mic-e] *** General Announcement Concerning APRS Issues ***

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 13 Apr 1999 23:51:54 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-15879-1999.04.14-00.12.53--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

To: APRS Community
4/13/99

As everyone is well aware, a discussion (sometimes heated) concerning
issues related to the future of APRS has been occurring on APRSSIG
during the past two weeks. In order to be more productive and take
some heat off the SIG, the APRS software authors have agreed to the
following:

o The authors have agreed not to publicly discuss the issues or
make announcements regarding the issues on an individual basis
until the Dayton Hamvention, May 14-16.

o The authors have agreed to meet face-to-face during the weekend of May
1-2 to discuss and resolve the issues. The following are attending the
meeting: software authors, Bob Bruninga, WB4APR, Steve Dimse, K4HG,
Keith Sproul, WU2Z. (Authors Mark Sproul, KB2ICI, will be out of town,

Brent Hildebrand, KH2Z, and Mike Musick, N0QBF, will be participating
in the electronic discussion before and after the May meeting.)
Also, attending will be Greg Jones, WD5IVD, and John Ackerman, N8UR,
representing TAPR and moderating the meeting.

o The outcome of the meeting will be announced before the Dayton
Hamvention.

In a related matter, it was announced early this week that Bob Bruninga,
Keith Sproul, and Mark Sproul are starting on the initial draft of a to be
published version of the APRS protocol. Further information on this
subject will be announced after the May meeting.

Greg Jones, WD5IVD, TAPR President
Stan Horzepa, WA1LOU, APRS SIGs administrator
APRS Authors: Bob Bruninga, WB4APR,
Keith Sproul, WU2Z, and
Steve Dimse, K4HG

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

24. [mic-e] Re: mic-e digest: April 14, 1999

From: "Dewey A. Bryant KD4EHC" <kd4ehc@bellsouth.net>
Date: Thu, 15 Apr 1999 09:46:11 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-16144-1999.04.15-08.51.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

THANK YOU & GODSPEED.....:)

T
> 1. *** General Announcement Concerning APRS Issues ***
>
>SNIP<
>
> o The outcome of the meeting will be announced before the Dayton
> Hamvention.
>
> In a related matter, it was announced early this week that Bob Bruninga,
> Keith Sproul, and Mark Sproul are starting on the initial draft of a to be
> published version of the APRS protocol. Further information on this
> subject will be announced after the May meeting.
>
> Greg Jones, WD5IVD, TAPR President
> Stan Horzepa, WA1LOU, APRS SIGs administrator
> APRS Authors: Bob Bruninga, WB4APR,
> Keith Sproul, WU2Z, and
> Steve Dimse, K4HG
> -----
> Greg Jones, WD5IVD Austin, Texas
> wd5ivd@tapr.org http://www.tapr.org/~wd5ivd
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

25. [mic-e] TAPR activities at Dayton HamVention

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 19 Apr 1999 12:58:12 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-16813-1999.04.19-13.03.55--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR Dayton Activities 1999
for details visit: http://www.tapr.org/tapr/html/Fdayton.html

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TAPR Digital Forum on Friday

The schedule for the TAPR digital forum is:

10:00 - 10:05am (5 min)
Introduction to Forum, John Ackermann, N8UR

10:05 - 10:30am (25min)
TAPR Update, Greg Jones, WD5IVD

10:30 - 11:00am (30 min)
Linux AX.25 Update, John Ackermann, N8UR

11:00 - 11:30am (30 min)
PIC Development Update, Steve Bible, N7HPR and John Hansen, W2FS

11:30 - 12:00noon (30 min)
GPS Projects, Steve Bible, N7HPR

12:00noon - 12:30pm (30 min)
Compact Flash Card Project, John Koster, W9DDD

12:30 - 1:00pm (30 min)
TAPR APRS News, Steve Dimse, K4HG and Stan Horzepa, WA1LOU

1:00pm - 1:45pm (45 min)
FHSS Radio Project Update, Tom McDermott, N5EG

Attending the 1999 Dayton Hamvention? Then don't miss out on PACK*BASH!

What?

An event for the digitally-inclined ham, featuring:

* Buffet dinner
* "A Little Technology Goes a Long Way" -- Keynote address
  by Dave Pederson, N7BHC
* TAPR special interest group meetings
* "Birds of a Feather" gatherings

When?

Friday evening, May 14, 1999
Doors open at 7:00 pm; dinner served at 7:30 pm
Speaker and meetings after dinner

Where?

NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --
South of downtown Dayton, just west of Main St. (Rt 48).
Maps available on the TAPR web site (www.tapr.org) or at the
TAPR booth.

How?

Dinner requires advance registration and payment through TAPR.
Tickets will be available at the TAPR booth on Friday, though
we strongly encourage registration <before> Hamvention. The cost
is $20.00 per person, tax and tip included.

All amateurs are welcome to attend, enjoy the speaker, and
particpate in the meetings, although only those purchasing a
dinner can eat.

To register, contact:
PACK*BASH
c/o TAPR
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399

Phone: (940) 383-0000
Fax: (940) 566-2544
Internet: tapr@tapr.org

Visa/Mastercard Accepted

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet
Radio, the national leader in digital communication -- and the
Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html,
or send email to tapr@tapr.org.

You can request information via packet radio at
BASH@W8APR.#DAY.OH.USA.NOAM.

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

26. [mic-e] ARRL & TAPR 1999 DCC Announcement

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 29 Apr 1999 16:00:10 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-18329-1999.04.29-15.56.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

1999 ARRL and TAPR Digital Communications Conference
September 24-26, 1999
Phoenix, Arizona

Full announcement and details can be found
at: http://www.tapr.org/dcc

The 1999 ARRL and TAPR Digital Communications Conference will
be held September 24-26, 1999 in Phoenix, Arizona. This year's
conference location is just minutes away from the Phoenix Sky Harbor
International Airport (PHX).

Symposia, Seminars, Banquet

In addition to the presentation of papers on Saturday, three
symposia/seminars will be held. These sessions are provided to allow
those with additional time and interest to make the most of the Digital
Communications Conference. For those who may have interest in
just one symposium or seminar, registration for the conference is not
required to attend these activities. This allows maximum flexibility for
those who may want to participate during the Digital Communications
Conference, but do not have an entire weekend to devote to the event.

The Third APRS National Symposium will be held on Friday and will
be moderated by Steve Dimse, K4HG (the developer of javAPRS). It
will likely include many APRS software authors, such as Bob
Bruninga, WB4APR (the father of APRS), Keith Sproul, WU2Z, Mark
Sproul, KB2ICI (the developers of MacAPRS and WinAPRS), Brent
Hildebrand, KH2Z (the developer of APRSPLUS), Mike Musick,
N0QBF (developer of PocketAPRS), and other nationally-known APRS
leaders. Join this group for the afternoon and evening for in-depth
discussions and presentations on the current and future status of
APRS. This is a unique opportunity to gain insight into this fast-
growing digital aspect of amateur operations that combines computers,
packet radio, and GPS (Global Positioning System).

Starting late Friday afternoon, a half-day technical seminar will be
held. In the past this seminar has covered topics such as RF, DSP,
Advanced Networking Topologies and other stimulating topics.

On Saturday night the DCC Banquet will be held. This year the
conference is proud to have Geoff Baehr, N6LXA, Sun Microsystems
Chief Network Officer at the banquet to speak. Sun Microsystems has
been doing some very exciting things in networking over the years and
the talk should be an interesting one. After the banquet there will be
time for special interest group gatherings.

The Sunday morning seminar will be focused on PIC development,
design, and programming. This five-and-a-half hour seminar will
focus on the things you need to know now in order to understand and
begin to participate in PIC development. PIC processors are becoming
very important in various project designs and implementations. This

seminar will by presented by the TAPR PIC Development team.

Fourth Annual ARRL and TAPR DCC Student Papers Award

ARRL and TAPR especially welcome papers from full-time students to compete for the fourth annual student papers award. Two $500 travel awards may be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see the guidelines for more information). Papers co-authored by educators or telecommunications professionals are also eligible for this award as long as a student is the first author. The deadline for receipt of finished student paper manuscript is July 10, 1999. Please note that this deadline is different from the general conference paper submission date. For full details and paper guidelines contact TAPR or browse to http://www.tapr.org/dcc.

Call for Conference Proceeding Papers

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the conference is not required for publication. The primary purpose of the conference is to communicate ideas and techniques regarding digital communications. Papers written in an informal style are welcome, as well as those written to academic standards. If you know of someone who is doing great things with digital communications, be sure to tell them about this! Papers are due by August 9, 1999, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111, or via e-mail to lweinberg@arrl.org. The paper submission guidelines are available on-line (http://www.tapr.org/dcc).

International Co-Host

PRUG (Packet Radio User Group of Japan) will be the International co-host for a second year running. PRUG will be hosting an informal social Friday evening before their seminar and symposium is held. Visit http://www.prug.or.jp for more information about the organization.

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road #337, Tucson, AZ 85749-9399, phone 940-383-0000, fax 940-566-2544, e-mail tapr@tapr.org, browse www.tapr.org/dcc.

Sincerely,
Greg Jones, WD5IVD, TAPR Conference Chair
Steve Stroh, N8GNJ, Conference Manager
Dan Meredith, N7MRP, Local Host Liaison
Keith Justice, KF7TP, Local Host Liaison

Note: If you need conference handouts or flyers for ham club meetings, contact TAPR to get what you need!

Hotel Information

Conference presentations, meetings, and seminars will be held at the Holiday Inn Select Airport. Special DCC rooms rates are $69/single and $79/double per night. When making reservations with the hotel, be sure to indicate you are attending the ARRL and TAPR DCC in order to get the discount. It is highly recommended that you book your room prior to arriving. A block of 75 rooms is reserved until August 22, 1999. After the 75 rooms are booked, rooms will only be available in nearby hotels, so be sure to book your rooms early! The hotel provides transportation to and from the Phoenix Sky Harbor International Airport. Please contact the hotel to arrange specific transportation needs.

```
   Holiday Inn Select Airport (conference hotel)
   4300 E Washington
   Phoenix, AZ  850234
   Phone 602-273-7778, fax 602-286-1109

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------------------------------------------------------------------------------
Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
------------------------------------------------------------------------------
e-mail: tapr@tapr.org       web: <http://www.tapr.org/>
ftp:    ftp.tapr.org
phone:  940-383-0000        fax: 940-565-2544
------------------------------------------------------------------------------

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You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

May 1999

Original source file: mic-e.9905
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9905

1. [mic-e] General Announcement on APRS Working Group Meeting

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 3 May 1999 13:46:54 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-18943-1999.05.03-13.52.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

General Announcement on APRS Working Group Meeting

Bob Bruninga, WB4APR, Steve Dimse, K4HG, Keith Sproul, WU2Z, Greg Jones,
WD5IVD, and John Ackermann, N8UR met near Baltimore, Maryland on Saturday
May 1st and Sunday May 2nd to hold an in-person meeting concerning the
recent issues of importance related to the future of APRS.

The main issues discussed were:

* Determine process to open APRS development.
* Determine the management process for the APRS protocols.
* Determine the publication process for the APRS protocol standard.
* Determine and publish a certification/validation process for APRS items
and programs.

The meeting was very productive with substantial and positive progress made
on these issues. The group developed a working plan and a task list for
continued discussion and closure before Dayton. Deliberation on the
working plan will occur this week to allow the participants who were not
available (Authors Mark Sproul, KB2ICI, will be out of town, Brent
Hildebrand, KH2Z, and Mike Musick, N0QBF) to have input on the working plan
as developed at the meeting.

All involved were pleased with the outcome of the meeting and the working
plan that resolved outstanding issues. The group is now focused on the
positive and growing aspects of APRS and creating a process that will open
the development of APRS hardware and software.

Over the next 10 days the group will finalize the remaining details and
will make a formal announcement on substantive decisions and plans before
Dayton HamVention.

Greg Jones, WD5IVD
for the APRS Working Group

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] converting an existing repeater to receive MIC-E APRS transmissions

From: "Tom Smith" <tom@halibut.com>
Date: Wed, 5 May 1999 23:47:32
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19371-1999.05.05-23.52.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Where can I find information about the procedures and the hardware it will
take to convert an existing 2M repeater to receive MIC-E APRS
transmissions? I would like to talk the local repeater into APRS support
but need more info. Thanks, Tom   KD6SOJ

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Re: converting an existing repeater to receive MIC-E APRS

From: austin@magicnet.net
Date: Thu, 6 May 1999 10:34:00 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19432-1999.05.06-09.38.07--lyris.mic-e#tapr.org@lists.tapr.org>

Rendered body type: text/plain

> Subject: converting an existing repeater to receive MIC-E APRS
> transmissions From: "Tom Smith" <tom@halibut.com> Date: Wed, 5 May 1999
> 23:47:32 X-Message-Number: 1
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> take to convert an existing 2M repeater to receive MIC-E APRS
> transmissions? I would like to talk the local repeater into APRS support
> but need more info. Thanks, Tom   KD6SOJ

Aaron (AE4KO) and I (KD4ZDD) have fabricated a APRS MIC-E
crossband repeater (from 442.25/447.25) in Orlando. We are
currently documenting our installation but have not yet finalized the
article.   I would be glad to help you with any direct questions
regarding our installation.

Your situation will be slightly tougher since you are inbanding to
APRS. I suspect that the Digi radio will be forced to have at least
two cans of a duplexer inline on TX/RX . Hopefully your voice
repeater is operating in the upper end of the 2m band :)   Both
sides of your system will have to have well tuned duplexers!

In brief, our system uses two Kantronics TNCs that feed the same
VHF Mitrek radio on 144.39 The first TNC is configured as a
typical full service digi on 2m. It is a KPC3+

The second TNC is an old KPC-9612 and is wired to listen for
packets received on the 70cm input frequency of the voice
repeater. This TNC is modified to provide a "packet detected" or
mute signal. I believe that the current firmware for the KPC3+ now
supports this signal out of the box.

Each TNC feeds the other TNC's XCD pin from their respective PTT
lines. The XCD input is configured in "Hold Off" mode. This allows
collision detection between the two bands. Each TNC PTT output
is "diode-ORed" to the PTT of the Mitrek. In your situation, you
could feed the voice repeater's PTT line to the XCD input if you
don't want both transmitters up at the same time.

My modification to the KPC-9612 is simple-- a single transistor
wired open collector style to the 1200 baud port "RX" LED. The
TNC is set for CD SOFTWARE mode (for open squelch).   When a
packet is detected by this TNC, the derived mute signal is used to
remove the "PL active" line from the voice repeater controller. That
in turn causes the voice repeater to drop prior to the actual loss of
PL.   The voice repeater controller is in AND-PL mode.

The audio delay board in the voice repeater "buys" us just enough
time for the controller to drop the voice repeater signal path before
the packet burst is heard.

The result is that MIC-E packets are never heard on the voice
repeater. The only detectable difference is a slight change in the
time delay before the courtesy beep is fired.

You will need to instruct your MIC-E enabled folks to not use PL
when they are in MIC-E AUTO mode. This mode will kerchunk the
voice repeater endlessly!   I have set aside a memory in my MIC-E
mobile to have the same configuration as normal for repeater
operation, BUT without PL encode enabled. This way I can monitor
the repeater activity and still be a MIC-E tracker.

Warren Merkel
KD4ZDD

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: converting an existing repeater to receive MIC-E APRS

From: George Carr <amsecllc@telebyte.com>
Date: Thu, 06 May 1999 08:52:24 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: Bill Hurd <uiisilv@oly.silverlink.net>
Message-ID: <LYR2619-19443-1999.05.06-10.59.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I HAVE A MIC E DIGIPEATER QUESTION. MAYBE SOMEONE CAN HELP.

We have a brand new KPC-9612 1200/9600/1200 [using the two 1200 ports] hooked between a UHF receiver monitoring our local UHF repeater and a VHF transmitter set to send the APRS packets into 144.390MHz.

We suspect that the Mic E data bursts on not being re-transmitted through the 9612 because we may have the software not configured properly.

Anyone willing to take a look? I can forward the 9612 internal settings in any document format you can read, including fax.

George, N7GME

austin@magicnet.net wrote:

> > Subject: converting an existing repeater to receive MIC-E APRS
> > transmissions From: "Tom Smith" <tom@halibut.com> Date: Wed, 5 May 1999
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> operation, BUT without PL encode enabled. This way I can monitor
> the repeater activity and still be a MIC-E tracker.
>
> Warren Merkel
> KD4ZDD

>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Thu, 6 May 1999 23:42:39 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19532-1999.05.06-22.45.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Depends on what you want to do.... there are two ways to go....

1. A simple digipeater that will only get mic-e packets from your repeater's audio to the aprs 2m frequency.

2. A full service digipeater at the same site as the repeater that will *also* get mic-e packets over to 2m.

Method 1 requires only a kpc3 or kpc3plus. You hook up the RX audio (kpc pin 5) to the repeater's audio. hook up the PTT , TX audio and XCD pins (3, 1, and 2) to the 144.39 transciever. and the grounds too. Here is where it get's *interesting*. Since the TNC is listening to the repeater audio for a packet, it can't hear 144.39. Since it can't hear 144.39, it could tx at the same time as another packet on 144.39. The XCD pin needs to be hooked to a squelch indicator on your 144.39 radio. It must be high when the squelch is open (not muted). Kenwood radios are upside down.. they are low when not muted.... but that is another matter. On many new radios, you will find a squelch indicator in the mic jack, and on the older (mid 1980's) you will find a LED around the front panel. All that matters is that you get 0v when the radio is quiet, and 5 or more volts when the radio is not muted.

The kpc3+ v8.3 has a MUTE function also.... one of it's pins will pull low when packet racket is heard on the repeater... this can be tied into your COR or PL tone enable inputs on your repeater cotroller to mute the packets on the output of the repeater.

Method #2 requires a kpc4 (dual port 1200 tnc), a kpc9612 with the additional 1200 modem, or two TNCs with either stealthdigi or aprsdigi software.

Wes - kd4rdb@qsl.net
http://www.qsl.net/kd4rdb

Where am I?
http://map.aprs.net/kd4rdb-9
http://map.aprs.net/kd4rdb-10

CW - the code that stops up your node.
-----Original Message-----
From: Tom Smith <tom@halibut.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Thursday, May 06, 1999 12:48 AM
Subject: [mic-e] converting an existing repeater to receive MIC-E APRS transmissions

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>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org

To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: Alan Crosswell <n2ygk@weca.org>
Date: Fri, 7 May 99 10:13:34 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19597-1999.05.07-09.18.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>additional 1200 modem, or two TNCs with either stealthdigi or aprsdigi
>software.

Or my setup: Two TNCs wired back to back with a null-terminal cable.
The TNC lisenting to the repeater is running a KISS EPROM. The other
TNC is running TheNet X1J4 with L2 digipeating enabled and the host
interface running in KISS mode. All packets received by the KISS TNC are
retransmitted by the X1J4 TNC and, the X1J4 performs basic digipeating
functions. It supports multiple aliases by husing the alias, hostalias, etc.

73 de Alan N2YGK
PS: And we already had cavities on the repeater input/output and added a
cavity on the 144.39 digipeater. This is at a high-RF site (County
radio tower with several commercial paging and broadcast tenants in
addition to public safety agencies).

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: George Carr <amsecllc@telebyte.com>
Date: Fri, 07 May 1999 07:11:11 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: Bill Hurd <uiisilv@oly.silverlink.net>
Message-ID: <LYR2619-19599-1999.05.07-09.19.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Wes,

We have a Mic E digipeater we are trying to get to work which includes a
KPC-9612 Plus 1200/9600/1200 and a UHF receiving Mic E data bursts from our
local mountain top repeater with an Alinco VHF packet transmitter sending out to
144.390MHz APRS. Our problem is that we don't think our software is setup
correctly. Can you tell us more about Method #2 and the APRSdigi software you
spoke of?

Thanks in advance for any help.

George, N7GME

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> additional 1200 modem, or two TNCs with either stealthdigi or aprsdigi
> software.
>
> Wes - kd4rdb@qsl.net
>   http://www.qsl.net/kd4rdb
>
> Where am I?
>   http://map.aprs.net/kd4rdb-9
>   http://map.aprs.net/kd4rdb-10
>
> CW - the code that stops up your node.
> -----Original Message-----
> From: Tom Smith <tom@halibut.com>
> To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> Date: Thursday, May 06, 1999 12:48 AM
> Subject: [mic-e] converting an existing repeater to receive MIC-E APRS
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8. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Fri, 7 May 1999 17:02:01 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19656-1999.05.07-16.05.58--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

GREAT SOLUTION!! I'd thought about back to back KISS tncs.. but there is no
way to ID them... you have a really good solution... except for one thing
that just came to mind as I wrote this... x1j 's beacon texts are not able
to be plotted on winaprs maps.... winaprs won't decode them due to xtra
characters that x1j puts in them.

Wes - kd4rdb@qsl.net
  http://www.qsl.net/kd4rdb

Where am I?
   http://map.aprs.net/kd4rdb-9
   http://map.aprs.net/kd4rdb-10

CW - the code that stops up your node.
-----Original Message-----
From: Alan Crosswell <n2ygk@weca.org>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Friday, May 07, 1999 10:14 AM
Subject: [mic-e] Re: converting an existing repeater to receive MIC-E APRS
transmissions

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>
>Or my setup: Two TNCs wired back to back with a null-terminal cable.
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9. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Fri, 7 May 1999 17:09:30 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19657-1999.05.07-16.13.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

you put your TNC into KISS mode, and hook it up to an old PC running
APRSDIGI. You can setup access to just the two 1200 baud ports with the
PORTA command in it's ini file.... www.qsl.net/kd4rdb/aprsdigi.htm ....
download version 11, and let me know if you have any problems.

Wes - kd4rdb@qsl.net
  http://www.qsl.net/kd4rdb

Where am I?
   http://map.aprs.net/kd4rdb-9
   http://map.aprs.net/kd4rdb-10

CW - the code that stops up your node.
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To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Cc: Bill Hurd <uiisilv@oly.silverlink.net>
Date: Friday, May 07, 1999 10:15 AM
Subject: [mic-e] Re: converting an existing repeater to receive MIC-E APRS
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>> Subject: [mic-e] converting an existing repeater to receive MIC-E APRS
>> transmissions
>>
>> >Where can I find information about the procedures and the hardware it
will
>> >take to convert an existing 2M repeater to receive MIC-E APRS
>> >transmissions? I would like to talk the local repeater into APRS
support
>> >but need more info. Thanks, Tom   KD6SOJ
>> >
>> >---
>> >You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>> >
>> >
>>
>> ---
>> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
>> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
>
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: converting an existing repeater to receive MIC-E APRS transmissions

From: Alan Crosswell <n2ygk@weca.org>
Date: Fri, 7 May 99 17:57:16 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19668-1999.05.07-17.01.58--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>that just came to mind as I wrote this... x1j 's beacon texts are not able
>to be plotted on winaprs maps.... winaprs won't decode them due to xtra

You may have occassionally seen me refer to broken APRS
implementations in my rants on this list. This is what I mean by a
broken APRS implementation. Protocol.txt clearly allows for a
position in a BTEXT to start at other than the first character
position. This is there to accomodate TheNet digis that force that
junk into the btext.

I looked at modifying TheNet source code to not print that junk but I
didn't have the right C compiler and didn't feel like spending money on
one. I guess I was too lazy to try and just write a binary patch in...
And, mostly, it works for aprsdos, and, IDing the digi is only a secondary
feature anyway. First and foremost it is a digi. Thenet still lacks all
the other nice features of aprsdigi, etc. though.

73 de Alan N2YGK

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] ANNOUNCE: Linux APRS Digipeater 2.0

From: Alan Crosswell <alan@columbia.edu>
Date: Fri, 7 May 99 18:48:49 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19671-1999.05.07-17.53.30--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

[I've been sitting on this a while waiting for beta-tester feedback.]

Announcing N2YGK's Linux aprsdigi-2.0.   April 2, 1999

Several hams have been using my original Linux APRS(tm) digipeater,
aprsdigi, for a couple of years now. It was found in the arpsmon.zip
package (don't ask) on ftp.tapr.org. Release 2.0 of this advanced
APRS digipeater is now available for free under the terms of the GNU
Public License (GPL) at http://www.users.cloud9.net/~alan/ham/aprs/.

Major features of this release of aprsdigi:

- MYCALL substitution.
- WIDE, WIDEn-n, TRACE, and TRACEn-n.
- As many radio interfaces as you can plug into your Linux machine
  with flexible gatewaying between them.
- Special handling for Mic-Encoder, Kenwood TH-D7, and TheNet X1J4, including
  SSID-based digipeating.
- Suppression of duplicate and looping packets.
- Works with Linux 2.2 kernel AX.25 network stack. This means any AX.25
  interface supported by the kernel will work, not just a TNC2 clone.
  Examples include all the BAYCOM interfaces (BAYPAC, PICPAR, PICSER, etc.),
  soundcards, 8530 SCC cards, etc.

This distribution also includes an updated version of aprsmon, but,
unless you require support for other than a TNC-2, I recommend using
WA4DSY's aprsd instead.

73 de Alan N2YGK

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Re: ANNOUNCE: Linux APRS Digipeater 2.0

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Fri, 7 May 1999 19:17:30 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-19674-1999.05.07-18.21.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

ut ohhhh..... now we're gunna have confusion.... I didnt know that there was
a linux version of aprsdigi when I wrote my DOS version..... hope this
doesn't cause too much confusion.

The linux version sounds great! Now if I only ran linux..... ;)

Wes - kd4rdb@qsl.net
http://www.qsl.net/kd4rdb

Where am I?
http://map.aprs.net/kd4rdb-9
http://map.aprs.net/kd4rdb-10

CW - the code that stops up your node.
-----Original Message-----
From: Alan Crosswell <alan@columbia.edu>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Friday, May 07, 1999 6:49 PM
Subject: [mic-e] ANNOUNCE: Linux APRS Digipeater 2.0

>[I've been sitting on this a while waiting for beta-tester feedback.]
>
>Announcing N2YGK's Linux aprsdigi-2.0. April 2, 1999
>
>Several hams have been using my original Linux APRS(tm) digipeater,
>aprsdigi, for a couple of years now. It was found in the arpsmon.zip
>package (don't ask) on ftp.tapr.org. Release 2.0 of this advanced
>APRS digipeater is now available for free under the terms of the GNU
>Public License (GPL) at http://www.users.cloud9.net/~alan/ham/aprs/.
>
>Major features of this release of aprsdigi:
>
>- MYCALL substitution.
>- WIDE, WIDEn-n, TRACE, and TRACEn-n.
>- As many radio interfaces as you can plug into your Linux machine
> with flexible gatewaying between them.
>- Special handling for Mic-Encoder, Kenwood TH-D7, and TheNet X1J4,
including
> SSID-based digipeating.
>- Suppression of duplicate and looping packets.
>- Works with Linux 2.2 kernel AX.25 network stack. This means any AX.25
> interface supported by the kernel will work, not just a TNC2 clone.
> Examples include all the BAYCOM interfaces (BAYPAC, PICPAR, PICSER,
etc.),
> soundcards, 8530 SCC cards, etc.
>
>This distribution also includes an updated version of aprsmon, but,
>unless you require support for other than a TNC-2, I recommend using
>WA4DSY's aprsd instead.
>
>73 de Alan N2YGK
>
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: ANNOUNCE: Linux APRS Digipeater 2.0

From: "Karl F. Larsen" <k5di@totacc.com>
Date: Sat, 8 May 1999 05:48:36 -0600 (MDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: mic-e@tapr.org, aprssig@tapr.org
Message-ID: <LYR2619-19733-1999.05.08-06.46.11--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Alan, I have no idea what a APRS Digipeater is or what "aprsd" is
but it sounds like an "aprs demon". Where do I get maps for your system?
Has anyone got a GPS attached to your aprs in Linux?

Here in New Mexico Paul WA5IKL has 18 sites he owns for commercial
radio. At each of these he has Ham radio repeaters and a box on 144.39 MHz
that "does packet". As mobile stations with a radio and GPS and the DOS
aprs, any "user" can display these mobile stations moving across the map
with aprs at home listening to 144.39.

If it sounds like I am ignorant your right. How do I fix this
condition? And why did you make a .zip Linux package? ... duck and run.

On Fri, 7 May 1999, Alan Crosswell wrote:

} [I've been sitting on this a while waiting for beta-tester feedback.]
}
} Announcing N2YGK's Linux aprsdigi-2.0.   April 2, 1999
}
} Several hams have been using my original Linux APRS(tm) digipeater,
} aprsdigi, for a couple of years now. It was found in the arpsmon.zip
} package (don't ask) on ftp.tapr.org. Release 2.0 of this advanced
} APRS digipeater is now available for free under the terms of the GNU
} Public License (GPL) at http://www.users.cloud9.net/~alan/ham/aprs/.
}
} Major features of this release of aprsdigi:
}
} - MYCALL substitution.
} - WIDE, WIDEn-n, TRACE, and TRACEn-n.
} - As many radio interfaces as you can plug into your Linux machine
}   with flexible gatewaying between them.
} - Special handling for Mic-Encoder, Kenwood TH-D7, and TheNet X1J4, including
}   SSID-based digipeating.
} - Suppression of duplicate and looping packets.
} - Works with Linux 2.2 kernel AX.25 network stack. This means any AX.25
}   interface supported by the kernel will work, not just a TNC2 clone.
}   Examples include all the BAYCOM interfaces (BAYPAC, PICPAR, PICSER, etc.),
}   soundcards, 8530 SCC cards, etc.
}
} This distribution also includes an updated version of aprsmon, but,
} unless you require support for other than a TNC-2, I recommend using
} WA4DSY's aprsd instead.
}
} 73 de Alan N2YGK
}
}

Best wishes

         - Karl F. Larsen, k5di@totacc.com (505) 524-3303 -

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] TAPR Dayton Activities 1999

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 11 May 1999 21:54:45 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-20435-1999.05.11-22.32.38--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR Dayton Activities 1999
for details visit: http://www.tapr.org/tapr/html/Fdayton.html

We will be at our normal booth spaces (542 & 543)
Come on by and say hi!

Friday Morning - TAPR Digital Forum
Friday Evening - TAPR PACK*BASH

TAPR Digital Forum on Friday

The schedule for the TAPR digital forum is:
        10:00 - 10:05am (5 min)
              Introduction to Forum, John Ackermann, N8UR

        10:05 - 10:30am (25min)
              TAPR Update, Greg Jones, WD5IVD

        10:30 - 11:00am (30 min)
              Linux AX.25 Update, John Ackermann, N8UR

        11:00 - 11:30am (30 min)
              PIC Development Update, Steve Bible, N7HPR and John Hansen, W2FS

```
        11:30 - 12:00noon (30 min)
              GPS Projects, Steve Bible, N7HPR

        12:00noon - 12:30pm (30 min)
              Compact Flash Card Project, John Koster, W9DDD

        12:30 - 1:00pm (30 min)
              TAPR APRS News, Steve Dimse, K4HG and Stan Horzepa, WA1LOU

        1:00pm - 1:45pm (45 min)
             FHSS Radio Project Update, Tom McDermott, N5EG

------------------------------

Attending the 1999 Dayton Hamvention?  Then don't miss out on PACK*BASH!

What?
       An event for the digitally-inclined ham, featuring:
        *  Buffet dinner
        *  "A Little Technology Goes a Long Way" -- Keynote address
                by Dave Pederson, N7BHC
        *  TAPR special interest group meetings
        *  "Birds of a Feather" gatherings

When?
        Friday evening, May 14, 1999
        Doors open at 7:00 pm; dinner served at 7:30 pm
        Speaker and meetings after dinner


Where?
        NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --
        South of downtown Dayton, just west of Main St. (Rt 48).
        Maps available on the TAPR web site (www.tapr.org) or at the
        TAPR booth.


How?
        Dinner requires advance registration and payment through TAPR.
        Tickets will be available at the TAPR booth on Friday.  The cost
        is $20.00 per person, tax and tip included.

        All amateurs are welcome to attend, enjoy the speaker, and
        particpate in the meetings, although only those purchasing a
        dinner can eat.


Who?
        PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet
        Radio, the national leader in digital communication -- and the
        Miami Valley FM Association, Dayton's packet radio club.


For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html,
or send email to tapr@tapr.org.

-----
Greg Jones, WD5IVD                 Austin, Texas
wd5ivd@tapr.org      http://www.tapr.org/~wd5ivd



---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

15. [mic-e] General Announcement APRS Working Group (APRS-WG)

```
From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 17 May 1999 10:29:10 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-21129-1999.05.17-10.34.30--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

General Announcement regarding the formation of the
APRS Working Group (APRS-WG)

As a result of the dialog held among the primary authors of APRS, the APRS

Working Group (APRS-WG) is being founded to aid with the development and growth of APRS. What follows is information on the APRS-WG and initial plans for the next eight months. As promised in the initial agreement between the authors this announcement covers the substantive outcomes that have occurred in private on-line discussion and at the in-person meeting held on May 1-2, 1999.

The APRS-WG would like to thank all those involved and the APRS community as a whole for allowing this process to happen in the manner that it did. The results we fell will benefit the APRS community as a whole.

Greg Jones, WD5IVD
for the APRS Working Group

==========

APRS Working Group

Mission Statement

APRS, developed by Bob Bruninga, WB4APR, is an Amateur Radio digital infrastructure for realtime and tactical digital communications. It is designed to provide communications during emergencies, but it is recognized to support routine round-the-clock global communications as well. Its applications include mapping, messaging, telemetry, and tracking. It uses a standard protocol over RF links, supplemented by alternate communication methodologies.

The APRS Working Group

The APRS Working Group ("Group)" is an unincorporated association whose members undertake to further the use and enhance the value of the APRS protocols by (a) maintaining and publishing a formal APRS Protocol Specification; (b) publishing validation tests and other tools to enable compliance with the Specification; (c) supporting an APRS Certification program; and (d) generally working to improve the capabilities of APRS within the Amateur Radio community. This document describes the organization and operation of the Group.
Although the Group may receive support from TAPR or other organizations, it is an independent body and is not affiliated with any organization. The Group will have no budget, collect no dues, and own no assets.

Statement of Principles

At a meeting near Baltimore, Maryland on May 1-2, 1999, and in email communications in the days following, the Group members agreed to the following principles that will govern their behavior and that of the Group:

1. Bob Bruninga has been the primary developer of the APRS concept. He owns the APRSdos computer program, the APRSdos documentation, and the APRS trademark, and retains the right to license these items to others.

2. All Group members agree that in the spirit of Amateur Radio, the on-air protocols themselves should be open to general Amateur Radio development and not be restricted by copyright.

2. Existing agreements between or among APRS developers are unaffected by this Charter.

3. The Group will formalize the APRS on-air Protocol Specification and publish a definitive APRS protocol document. Present plans are to make the specification in book and diskette form, and possibly to provide it via electronic distribution.

4. A process will be put in place to define how changes to the protocol specification are made, and that process will permit input, review, and comment by the Amateur Radio public.

5. The Group will put a voluntary APRS certification process in place, to be managed by Bob Bruninga with Group oversight. The process will include a publicly available validation suite.

Protocol Committee

```
------------------
The APRS Protocol Specification is the formal definition of the data
elements and message formats used to communicate between APRS devices via
wireless or wired (e.g., Internet) connections.  It does not include user
interface or other elements that do not affect the content or format of
these interface components.

The Protocol Committee, which presently consists of all APRS-WG Members, is
responsible for the APRS Protocol Specification.  It manages the process
for publishing and updating the Specification, and for receiving public
comment on proposed changes.

The Protocol Committee intends to publish Version 1.0 of the APRS Protocol
Specification by the end of October 1999.  The first draft of the
Specification will be made available to the Amateur Radio community by the
end of June 1999, and comments will be accepted as defined below.

Committee Operations and Community Input
Input from the APRS user community, other APRS developers, and the amateur
community at large is a key component of the protocol development process.
Once the process has been formally defined it will be announced and
published.


Certification Committee
-----------------------
The Group wants to encourage the development of products that properly
implement the APRS protocols.  To that end, the Certification Committee,
which is initially composed of all Group members, will establish a
Certification Program.  Certification is wholly voluntary on the part of an
APRS product developer, and the Certification Program is available on an
equal basis to any developer.
The full certification process and schedule will be announced and published
shortly after Dayton.  Some of the points of certification include:

1. The Committee will develop and approve a Validation Suite, which will be
the primary basis for Certification.  The Suite will consist of test inputs
and a description of how a product complying with the Protocol
Specification should react to each of these inputs.  The suite will be
based on the TAPR TNC-2 packet display format.  The Validation Suite will
be made available to the public without charge.

2. Bob Bruninga will manage the Certification Program on behalf of the
Committee, subject to oversight by the Committee.

3. Subject to compliance with a Certification Agreement that must be signed
before Certification is granted, Certified Products will be permitted to
display or be advertised in conjunction with an "APRS Certified" trademark
and logo.  The trademark and logo are owned by Bob Bruninga and are
licensed subject to the Certification Agreement.

4. Certified Products must successfully complete the Validation Suite, but
applicants must acknowledge that additional testing may be necessary to
ensure that a given Product properly implements the Protocol Specification,
and agree to reasonably cooperate with such testing.

5. The Certification process is largely self-managed.  The applicant must
run the validation suite and submit results with the application.  The
Committee will conduct such testing as it deems necessary to verify the
Product's conformance to the Protocol Specification.


-------

Full details regarding membership to APRS-WG, meeting and voting process,
protocol committee, and the certification process will be made available
once the rules have been fully developed.

==================================================

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

16. [mic-e] Re: General Announcement APRS Working Group (APRS-WG)

```
From: "Dave VanHorn" <dvanhorn@cedar.net>
Date: Mon, 17 May 1999 10:31:48 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
```

Message-ID: <LYR2619-21133-1999.05.17-10.49.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Congratulations! This looks VERY good.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

17. [mic-e] Help with Mic-E settings

From: "Chuck Hodell" <hodell@umbc.edu>
Date: Thu, 20 May 1999 12:47:05 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-21726-1999.05.20-11.53.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have recently put a Mic-e online in my vehicle and I would appreciate any
help available for setting it up correctly. Especially helpful would be
settings for the path statements and timing parameters. At present it
transmits about every 10 - 15 minutes unless I do it manually. I am
guessing that 2-5 minutes is probably standard when you are actually moving.
I have the path presently set to relay, wide, wide.

I am relatively new to APRS and ceratinly to the Mic-e, so I hope the
questions aren't something I should have caught in the literature.

Thanks.

chuck N8ADN on Kent Island, Maryland

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

18. [mic-e] Re: Help with Mic-E settings

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Thu, 20 May 1999 21:55:50 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-21817-1999.05.20-21.01.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I set my "base" unit of time to one minute... you can spin the knob to 16
minutes if you wish to reduce the rate. When parked I spin the knob to 16
minutes, one minute when traveling.

Wes - kd4rdb@qsl.net
  http://www.qsl.net/kd4rdb

Where am I?
   http://map.aprs.net/kd4rdb-9
   http://map.aprs.net/kd4rdb-10

Hookt on fonix werkt fer me!
-----Original Message-----
From: Chuck Hodell <hodell@umbc.edu>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Thursday, May 20, 1999 12:48 PM
Subject: [mic-e] Help with Mic-E settings

>I have recently put a Mic-e online in my vehicle and I would appreciate any
>help available for setting it up correctly. Especially helpful would be
>settings for the path statements and timing parameters. At present it
>transmits about every 10 - 15 minutes unless I do it manually. I am
>guessing that 2-5 minutes is probably standard when you are actually
moving.
>I have the path presently set to relay, wide, wide.
>
>I am relatively new to APRS and ceratinly to the Mic-e, so I hope the
>questions aren't something I should have caught in the literature.
>
>Thanks.
>
>chuck N8ADN on Kent Island, Maryland
>
>

>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

19. [mic-e] TripMate

From: "kd5abq" <kd5abq@vvm.com>
Date: Wed, 26 May 1999 02:22:07 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22709-1999.05.26-02.30.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OK our club recently purchased 4 Mic-E's. One of these is hooked up to a Delorme Tripmate GPS. This GPS has already been modified for external power via cigarette lighter with the cable set purchased from Delorme. It has also been modified to be always on and receiving without having to be interfaced to a computer.

Now the problem is, it seems that the MIC-E is not receiving this data. I can hook it up to my laptop and street atlas 5.0 and instant fix. I unplug it and plug it into the MIC-E and the Mic-e sends:

KD5ABQ-5>PP0PPP-9:'vXl _/

Any ideas would be greatly appreciated. If it is not to much trouble please send response to kd5abq@vvm.com

Gary

20. [mic-e] Re: TripMate

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 26 May 1999 07:37:22 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22720-1999.05.26-06.43.06--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have only had a problem with my mic-e accepting data from an older GPS10.... and I suspect a voltage problem. I don't think this is your problem, because my tripmate works fine with my mic-e. In your case, have you checked to be sure that the MIC-e "adaptor" cable has pins 2 and 3 wired correctly? Try switcheing them around.

Wes - kd4rdb@qsl.net
  http://www.qsl.net/kd4rdb

Where am I?
   http://map.aprs.net/kd4rdb-9
   http://map.aprs.net/kd4rdb-10

Hookt on fonix werkt fer me!
    -----Original Message-----
    From: kd5abq <kd5abq@vvm.com>
    To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
    Date: Wednesday, May 26, 1999 3:12 AM
    Subject: [mic-e] TripMate

    OK our club recently purchased 4 Mic-E's. One of these is hooked up to a Delorme Tripmate GPS. This GPS has already been modified for external power via cigarette lighter with the cable set purchased from Delorme. It has also been modified to be always on and receiving without having to be interfaced to a computer.

    Now the problem is, it seems that the MIC-E is not receiving this data. I can hook it up to my laptop and street atlas 5.0 and instant fix. I unplug it and plug it into the MIC-E and the Mic-e sends:

    KD5ABQ-5>PP0PPP-9:'vXl _/

    Any ideas would be greatly appreciated. If it is not to much trouble please send response to kd5abq@vvm.com

    Gary

21. [mic-e] RE: TripMate

From: "Borcher, David (NG-EX)" <DBorcher@GI.com>
Date: Wed, 26 May 1999 08:13:10 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22739-1999.05.26-10.15.37--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

...Now the problem is, it seems that the MIC-E is not receiving this data.

- - - - -
I believe that the TripMate does not send ordinary NMEA 0183 data, but
uses a proprietary DeLorme format. It may not be compatible with the MIC-E.

This was discussed about a week ago on the APRS SIG.

Dave K7NG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

22. [mic-e] RE: TripMate

From: John Hansen <hansen@fredonia.edu>
Date: Wed, 26 May 1999 11:37:14 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22744-1999.05.26-10.37.05--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 08:13 AM 5/26/99 -0700, you wrote:
>...Now the problem is, it seems that the MIC-E is not receiving this data.
>
>- - - - -
>I believe that the TripMate does not send ordinary NMEA 0183 data, but
>uses a proprietary DeLorme format. It may not be compatible with the MIC-E.
>
>This was discussed about a week ago on the APRS SIG.
>
This is true of the new Earthmate, but not the Tripmate. The Tripmate does
NEMA. I have interfaced it successfully with a PIC-E, though I've not tried it
on a MIC-E.

John, W2FS

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

23. [mic-e] RE: TripMate & NMEA

From: "Borcher, David (NG-EX)" <DBorcher@GI.com>
Date: Wed, 26 May 1999 08:41:35 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22745-1999.05.26-10.43.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Isn't there some command you have to send to the unit to change from
proprietary to NMEA? Is the data output setting non-volatile?

Thanks for the correction.

Dave K7NG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

24. [mic-e] RE: TripMate & NMEA

From: Steve Dimse K4HG <k4hg@tapr.org>
Date: Wed, 26 May 1999 11:43:41 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22746-1999.05.26-10.49.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 5/26/99 11:41 AM Borcher, David (NG-EX) (DBorcher@GI.com) wrote:

>Isn't there some command you have to send to the unit to change from
>proprietary to NMEA? Is the data output setting non-volatile?
>
>Thanks for the correction.

>
Is this the tripmate, or the Earthmate. The Tripmate puts out NMEA, while
the Earthmate puts out Rockwell, and is incompatible with the D7. No one
has found any command to switch the Earthmate into NMEA, the usual
Rockwell command does not work...

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

25. [mic-e] RE: TripMate & NMEA

From: "Zhahai Stewart" <zhahai@hisys.com>
Date: Wed, 26 May 1999 11:36:16 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22760-1999.05.26-12.41.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Isn't there some command you have to send to the unit to change from
> proprietary to NMEA? Is the data output setting non-volatile?

The Tripmate defaults to NMEA but can be switched back and forth between
Rockwell binary format and NMEA (each protocol contains a command to
switch to the other). The setting (NMEA or Rockwell binary) seems to be
volatile; the Tripmate always powers up in NMEA mode.

The newer Earthmate is always in Rockwell Binary mode, and cannot be
changed to NMEA mode; the Rockwell switch-to-NMEA command doesn't work.
(A few of the normal Rockwell binary packet formats are also
unavailable). Delorme claims this is because firmware enhancements more
ROM space in the Rockwell chip set, so the internal binary to NMEA
translation routines were among the things sacrificed. Some people
believe this, some think it was an excuse. The Earthmate DOES perform
somewhat better, however, so maybe they really did substantially improve
the GPS firmware, and this used up more ROM space.

Both have a Delorme proprietary startup thing, where they initially
output a string (ASTRAL for the tripmate, EARTHA for the earthmate)
repeatedly, and do not become functional until they receive the same
string. This can be done simply by looping the output back to the input,
or can be done in software. Delorme software (like Street Atlas) does
this.

You might try tapping into the communications line (RS-232) between the
Mic-E and the Tripmate, and passivly watching what is sent each way (by
changing which line is tapped, TXD or RXD) on a computer running a simple
terminal program. Sounds hard, but it just takes a ground and a data
jumper and some DE-9 (or DB-25) connectors. That way you can confirm that
the Tripmate sent and received "ASTRAL" and then began to deliver NMEA
data - or not. The Windows terminal program will work.

Zhahai

@ Zhahai Stewart   zhahai@hisys.com
@ A Meme Gardener   http://rainbow.rmi.net/~hisys/zhahai.html
@ Standard Disclaimer YMMV - Your Maya May Vary

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

26. [mic-e] RE: TripMate

From: Alan Crosswell <n2ygk@weca.org>
Date: Wed, 26 May 99 14:57:12 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22768-1999.05.26-14.02.48--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've used the tripmate with Mic-E and TH-D7. Mic-E notes here (or
read your back issues of PSR):

http://www.weca.org/wecagram/9707/wecagram.html#APRS

Almost 2 years ago.

73 de Alan N2YGK

PS: For TH-D7 use: make a DB9-to-mini cable and short pins 4&9 together.
    Then, inside tripmate case, short right two pins of the battery
    connector together. This will put +V out on pin 9 so it can get
    shorted back in on pine 4 to assert DTR:-)

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

27. [mic-e] RE: TripMate xmit/rec line

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 26 May 1999 15:10:12 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-22778-1999.05.26-15.15.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The wire with the wiggle that makes your voltmeter jiggle
is the GPS out xmit line.

73

-----   kc5ejk@onramp.net   or kc5ejk@amsat.org   -----

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

28. [mic-e] 1999 TAPR Digital Forum @ HamVention

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 31 May 1999 13:14:11 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-23581-1999.05.31-13.20.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The audio from the TAPR Digital Forum held during the 1999 Dayton
Hamvention is now available for listening. If you couldn't make the forum
this year, you can catch up on all the talks.

http://www.tapr.org/tapr/html/Fdayton99.html

Welcome to the TAPR Digital Forum
              John Ackermann, AG9V, Forum Moderator

TAPR Kit/Project/Organizational Update
              Greg Jones, WD5IVD (www)

Linux AX.25
              John Ackermann, N8UR

PIC-E Developments
              Steve Bible, N7HPR (www) and John Hanson, W2FS

GPS Projects
              Steve Bible, N7HPR (www)

Compact Flash Adapter
              John Koster, W9DDD

APRS Update
              Steve Dimse, K4HG and Stan Horzepa, WA1LOU

TAPR 900Mhz FHSS Radio Project
              Tom McDermott, N5EG

in addition Dave Pedersen, N7BHC, talk on "A Little Technology Goes a Long
Way" during the TAPR PacketBASH on Friday is available.

Cheers - Greg Jones, WD5IVD

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399

```
e-mail: tapr@tapr.org       web: <http://www.tapr.org/>
ftp:    ftp.tapr.org
phone:  940-383-0000        fax: 940-565-2544
-------------------------------------------------------------------------------

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

June 1999

Original source file: mic-e.9906
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9906

1. [mic-e] Internal GPS Connections

From: "Mark Guest" <KE4TNO@aol.com>
Date: Tue, 8 Jun 1999 17:27:29
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-25099-1999.06.08-17.34.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I need a little help reading the circuit board. I want to install a GPS-25
by soldering directly to position "JP3". My question is this: If I hold the
board so the words "JP3 Internal GPS" are right-side up (readable), which
solder location is considered "pin #1"? I would think it would be from left
to right (1,2,3, etc), but there is a number "1" printed on the board to
the right of the last solder point. The schematic shows left to right. I
just want to be sure.

Thanks in advance,

Mark

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Re: Internal GPS Connections

From: George Carr <amseclic@telebyte.com>
Date: Tue, 08 Jun 1999 18:18:31 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-25124-1999.06.08-20.22.34--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark Guest wrote:
>
> I need a little help reading the circuit board. I want to install a GPS-25
> by soldering directly to position "JP3". My question is this: If I hold the
> board so the words "JP3 Internal GPS" are right-side up (readable), which
> solder location is considered "pin #1"? I would think it would be from left
> to right (1,2,3, etc), but there is a number "1" printed on the board to
> the right of the last solder point. The schematic shows left to right. I
> just want to be sure.
>
> Thanks in advance,
>
> Mark
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

FOR CONNECTING AN INTERNAL GPS-25

Pin 1 is on the right as describe on page 6 of 24.

Connect Pin 2 - RS 232 level output of the GPS-25 [WHITE WIRE]
Connect Pin 4 - to the 5V input to the GPS-25 [RED WIRE]
Connect Pin 5 - to the ground connection for the GPS-25 [BLACK WIRE]

George, N7GME

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Help with MIM Variable Rate Mobiles article from Packet Status Register Spring 99

From: "Michael James Wolthuis" <wolthui3@pilot.msu.edu>
Date: Wed, 9 Jun 1999 00:00:52 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-25158-1999.06.08-23.05.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

MIC-E SIG,
The article in the PSR SP99 for Variable Rate mobiles is a little confusing. Can someone please clarify
the following questions and possibly send a better schematic? Thanks:

Do I cut the trace between VR1 10k and RA3 and insert a 10kohm resistor?
What wattage?

The text says 5k, but the schematic seems to show a 10k, which one is it????

Where does ignition Swith come from? A fuse that is turned off and on via ignition work ok?

What kind/value is the transistor used to connect R(the resistance added) and ground?

Where do you pickup the ground for the transistor?

What R value have you used with best results?

Where on the board do you mount parts, component side. solder side or external?

Thanks for all the help,
Mike Wolthuis
KB8ZGL

My Quote:
A quest for knowledge is never done....
so keep on asking questions to gain whatever you can grasp...
until the point you can learn no more!

4. [mic-e] auto frequency selection by mic-e?

From: "Ed Bathgate, RMA Repair Dept x8785" <ed@fore.com>
Date: Wed, 16 Jun 1999 14:39:35 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-26160-1999.06.16-13.49.46--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has it been done to make a mic-e select a vfo channel, transmit
the coordinates, and then return to the selected radio memory?

My mobile rig is the RS - HTX-242. It has frequency and memory
controls on the mike. It can select vfo or memory mode by a button
and they key in a frequency via the keypad, which I assume is a
serial data stream.

I normally operate on memory 2 = 146.850- pl 123 a non "mic-e" repeater.

We do have an APRS-Digi on 144.390. I have 144.39 programmed into my
rig as memory 18, and vfo 1, but vfo 2, could be on a different freq.

My wish is (press and hold the magic key now)

MIC-E would assert "VFO mode" command
MIC-E would then send "144.390" data stream
MIC-E would then transmit APRS/GPS data stream
MIC-E would then assert "Memory mode" command, returning the radio to
whatever memory channel I had previously selected.

Has this been done already? Can this be programmed into MIC-e Pic chip,
or should an external CPU be used to avoid major hacks to mic-e firmware?

Ed N3SDO

Ed Bathgate RMA Dept (724) 772-8785

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] RE: auto frequency selection by mic-e?

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Wed, 16 Jun 1999 12:01:57 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-26161-1999.06.16-14.08.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The way I accomplish this feat is: I set up another memory channel to
receive the frequency I want (my home repeater), then I put in an offset to
transmit on 144.39.

That way I listen to my home repeater and whenever my Mic-E sends out its
position, it transmits on 144.39 and then listens on my home repeater again.

Works great for me in our area.

There is one downfall, The Mic-E will listen to my voice repeater not
144.39, so, it may transmit on top of another transmission on 144.39 or hold
off till the voice repeater is quiet before it transmits. I do not consider
this a problem for me or our NW APRS system.

Herb
KB7UVC

> -----Original Message-----
> From: bounce-mic-e-3832@lists.tapr.org
> [mailto:bounce-mic-e-3832@lists.tapr.org]On Behalf Of Ed Bathgate, RMA
> Repair Dept x8785
> Sent: Wednesday, June 16, 1999 11:40 AM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] auto frequency selection by mic-e?
>
>
>
> Has it been done to make a mic-e select a vfo channel, transmit
> the coordinates, and then return to the selected radio memory?
>
> My mobile rig is the RS - HTX-242. It has frequency and memory
> controls on the mike. It can select vfo or memory mode by a button
> and they key in a frequency via the keypad, which I assume is a
> serial data stream.
>
> I normally operate on memory 2 = 146.850- pl 123 a non "mic-e" repeater.
>
> We do have an APRS-Digi on 144.390. I have 144.39 programmed into my
> rig as memory 18, and vfo 1, but vfo 2, could be on a different freq.
>
> My wish is (press and hold the magic key now)
>
> MIC-E would assert "VFO mode" command
> MIC-E would then send "144.390" data stream
> MIC-E would then transmit APRS/GPS data stream
> MIC-E would then assert "Memory mode" command, returning the radio to
> whatever memory channel I had previously selected.
>
> Has this been done already? Can this be programmed into MIC-e Pic chip,
> or should an external CPU be used to avoid major hacks to mic-e firmware?
>
> Ed N3SDO
>
>
>
> Ed Bathgate RMA Dept (724) 772-8785
>
>
> ---
> You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: auto frequency selection by mic-e?

From: Jack Patterson <bpatt@worldnet.att.net>
Date: Thu, 17 Jun 1999 10:54:21 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-26320-1999.06.17-13.01.06--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi ED...I have a MicE tied to an Alinco 110...I set the freq in memory
for 144.39. then switch to VFO and set the local repeater output
frequency. Then set the Alinco in the Dual mode...split operation. If I
want to call or return a call I hit the CALL button and go to the local
repeater. Then return afterwards VFO and I am back on normal track. The
downside is that I send a 300ms burst at the end of my transmission on
the local repeater...and also if there is a lot of traffic on the local
reptr I need to turn down the audio gain control so that the MicE is not
held off.
cul..Jack W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] New IC2800-H

From: "Michael James Wolthuis" <wolthui3@pilot.msu.edu>
Date: Mon, 28 Jun 1999 16:35:31 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27858-1999.06.28-15.41.09--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Everyone,
I bought at Dayton the IC-2800H along with the MIC-E Kit. What a GREAT system. Now to get a THD7A for handheld ops, but anyways. I am trying to interface the MIC-e to the 2800H. From what the manual says there is no receive audio on the 8pin RJ45. There is of course receive audio via the standard audio plug on the back, but that cuts of the internal speaker which I need to hear the repeater. I have the MIC-e setup and working GREAT with my IC-281H, but that radio has the same problem, where do I get receive audio without cutting off the internal speaker? Any help would be GREAT! Otherwise, what about unscquelched audio from a Kenwood TM-261a? I know the MIC-e doesn't have a DCD circuit so how do I acomplish all this?
Thanks,
Mike Wolthuis
KB8ZGL

My Quote:
A quest for knowledge is never done....
so keep on asking questions to gain whatever you can grasp...
until the point you can learn no more!

8. [mic-e] Re: New IC2800-H

From: "Ed Bathgate, RMA Repair Dept x8785" <ed@fore.com>
Date: Mon, 28 Jun 1999 16:52:26 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27860-1999.06.28-16.03.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/enriched

At 04:35 PM 6/28/99 -0400, you wrote:

Hi Mike

You have 2 options,

1 modify the radio so the speaker does not cut out,

2 use an external speaker with a Y to the mic-ey.

Ed N3SDO

>>>>

<excerpt>Hi Everyone,

I bought at Dayton the IC-2800H along with the MIC-E Kit. What a GREAT system. Now to get a THD7A for handheld ops, but anyways. I am trying to interface the MIC-e to the 2800H. From what the manual says there is no receive audio on the 8pin RJ45. There is of course receive audio via the standard audio plug on the back, but that cuts of the internal speaker which I need to hear the repeater. I have the MIC-e setup and working GREAT with my IC-281H, but that radio has the same problem, where do I get receive audio without cutting off the internal speaker? Any help would be GREAT! Otherwise, what about unscquelched audio from a Kenwood TM-261a? I know the MIC-e doesn't have a DCD circuit so how do I acomplish all this?

Thanks,

Mike Wolthuis

KB8ZGL

My Quote:

A quest for knowledge is never done....

so keep on asking questions to gain whatever you can grasp...

until the point you can learn no more!

</excerpt><<<<<<<<

Ed Bathgate RMA Dept (724) 772-8785

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Stupid Question

From: Darrell Carothers <darrellc@flash.net>
Date: Mon, 28 Jun 1999 18:38:09 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27875-1999.06.28-18.45.44--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I know nothing about the Mic-E or PIC-E. Are these small transmitters
for APRS or am I way off. Looking to build a pack mounted transmitter
for Rescue work

Darrell

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: Stupid Question

From: N1EZT@aol.com
Date: Mon, 28 Jun 1999 19:47:23 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27879-1999.06.28-18.55.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Your best all-around bet is the Kenwood ThD7A, as far as I can tell!
Everything is built in except GPS, and You get a Dual band radio, too. Thats
my opinion, anyway.. Mic E cant recieve, either. Its the cheapest way to send
your position, though. (Works with any radio).

Pete, N1EZT.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Mic-E Repeater help

From: "Bob Oesterlin" <oester@millcomm.com>
Date: Tue, 29 Jun 1999 07:10:00 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27934-1999.06.29-07.17.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We'd like to setup the local repeater for Mic-E use. It's a Mark 4 Repeater
by Micro Control Specialties of Groveland, Mass. I'm looking for information
on what lines to tie the KPC3+ into on the repeater side, or any tips on
doing this.

Thanks!

Bob N0EST
n0est@arrl.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Mic-E/MIM transmit

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Tue, 29 Jun 1999 12:24:36 -0400 (EDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@tapr.org>
Message-ID: <LYR2619-27951-1999.06.29-11.31.46--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A person just asked if he could use the MMI/Mic-E as a general purpose
AX.25 TNC transmitter and the answer is yes (sort-of).

If you program the MIM/Mic-E GPS string to be a wildcard such as "$X" then
if you connect a dumb terminal, then you can send anything you type by
preceeding it with $X.

So $XHello everyone, how copy my MIM?

should transmit the packet "Hello everyone, how copy my MIM?

de WB4APR, Bob

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: New IC2800-H

From: Rick Gilligan <rick@case.net>
Date: Tue, 29 Jun 1999 09:31:10 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27955-1999.06.29-11.39.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> I bought at Dayton the IC-2800H along with the MIC-E Kit. What a
> GREAT system. Now to get a THD7A for handheld ops, but anyways. I am
> trying to interface the MIC-e to the 2800H.

Next big problem. The standard touchtone/control mic does not
have a PTT line! It sends a packet on mic button down and on
up.

If you (from memory) ground one of the lines, one of the other
lines turns into a ptt line. However, you lose complete use
of the touchtone and control functions. I.e., you'll have to
use a "normal" mic (maybe with a touchtone pad, there is power
on the RJ45).

Not very MIC-E friendly at all. All radios from Icom which
use that mic have the same problem (2710, 207, 2800). Similar
problem with the 2700 (slightly different mic, same idea).

This seems to be the trend in modern radios. Good thing there
are used radios available. I use mine with a Motorola GM300.
Works fine.

73
Rick
N6NL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] Re: New IC2800-H

From: Rick Gilligan <rickg@case.net>
Date: Tue, 29 Jun 1999 09:36:39 -0700 (PDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27957-1999.06.29-11.43.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Tue, 29 Jun 1999, Rick Gilligan wrote:

> Next big problem. The standard touchtone/control mic does not

> have a PTT line! It sends a packet on mic button down and on
> up.

Uh, let me clarify my remark... the packet is from the mic's
microprocessor to the main unit's microprocessor. I am not speaking
of an AX.25 packet in any way.

73
Rick

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] Re: New IC2800-H

From: "Mike Wolthuis (KB8ZGL)" <kb8zgl@wallycom.com>
Date: Tue, 29 Jun 1999 12:57:30 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27958-1999.06.29-12.03.04--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Rick Gilligan <rick@case.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Tuesday, June 29, 1999 12:31 PM
Subject: [mic-e] Re: New IC2800-H

> > I bought at Dayton the IC-2800H along with the MIC-E Kit. What a
> > GREAT system. Now to get a THD7A for handheld ops, but anyways. I am
> > trying to interface the MIC-e to the 2800H.
>
> Next big problem. The standard touchtone/control mic does not
> have a PTT line! It sends a packet on mic button down and on
> up.
Teh manual though says that there is PTT on pin 4 of the RJ45? What is
wrong with using that? Also, could we interface with the data jack on the
back for packet connectivity to make it work?
>
> If you (from memory) ground one of the lines, one of the other
> lines turns into a ptt line. However, you lose complete use
> of the touchtone and control functions. I.e., you'll have to
> use a "normal" mic (maybe with a touchtone pad, there is power
> on the RJ45).
>
I really would like to keep the Mic it came with :P Any other ideas anyone
on how to combat this issue? I am sure the IC-2800H and IC-281H are not the
only models with this problem.
> Not very MIC-E friendly at all. All radios from Icom which
> use that mic have the same problem (2710, 207, 2800). Similar
> problem with the 2700 (slightly different mic, same idea).
>
> This seems to be the trend in modern radios. Good thing there
> are used radios available. I use mine with a Motorola GM300.
> Works fine.
>
> 73
> Rick
> N6NL
>
> ---
> You are currently subscribed to mic-e as: kb8zgl@wallycom.com
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

16. [mic-e] Re: New IC2800-H

From: Rick Gilligan <rickg@case.net>
Date: Tue, 29 Jun 1999 10:09:32 -0700 (PDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27966-1999.06.29-12.16.53--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Teh manual though says that there is PTT on pin 4 of the RJ45? What is
> wrong with using that? Also, could we interface with the data jack on the
> back for packet connectivity to make it work?

Only if you ground one of the other pins, completely disabling any ability
for the standard mic to "talk" to the main unit.

Oh, I was not aware that they added a data jack. Thank you Icom!

The biggest issue will then be that there is no "PTT" line from the
standard mic to the radio. That line is what the mic-e senses and holds
keyed for a short period while sending the AX.25 packet. Basically, the
PTT line from the mic is an input on the PIC with an output on the PIC
then driving the radio PTT line.

While you could hook the MIC-E to the data port, it wouldn't necessarily
see the effective PTT from the mic. You could at least send periodic
packets with position, but not the "burst on key up".

> I really would like to keep the Mic it came with :P Any other ideas anyone
> on how to combat this issue? I am sure the IC-2800H and IC-281H are not the
> only models with this problem.

Short of another PIC that spoke Icom's mic-radio protocol (or new code in
the existing one...), it looks rather grim.

73
Rick

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

17. [mic-e] Re: New IC2800-H

From: Rick Gilligan <rickg@case.net>
Date: Tue, 29 Jun 1999 10:17:54 -0700 (PDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-27967-1999.06.29-12.25.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Teh manual though says that there is PTT on pin 4 of the RJ45? What is
> wrong with using that? Also, could we interface with the data jack on the
> back for packet connectivity to make it work?

One more clarification. The manual shows it as "PTT", that is NOT what
the standard mic uses that line for.

Also, if the 2800 is like the 2710, the line I refer to as "needing to be
grounded to enable the PTT line" is only sensed when the radio is powered
up, not on an on-going basis.

Here's a trick to see how it works.

Figure out which line is the unidirectional control line from the mic to
the radio. Install something to allow you to break the connection at
will.

Key the radio with the standard mic. Keep the mic button down. Break the
connection to the radio. The radio will remain keyed, even if you release
the PTT.

Re-connect the circuit. Key the mic. Unkey the mic. The radio will now
stop transmitting.

The red LED transmit indicator on the mic is driven solely by the mic's
microprocessor, which appears to have a unidirectional link to the main
unit. No status information seems to come back from the main unit on the
control line. The control line does not appear to be a tri-state
bidirectional bus.

73

Rick
N6NL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

18. [mic-e] Re: New IC2800-H

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 30 Jun 1999 19:09:02 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-28150-1999.06.30-18.16.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Gosh, the next big "hack" will be to modify the mic to send an AX25 packet!!
Or to modify the mic to tell the radio to QSY to 144.39, send a packet burst
and un-QSY.... neat possibilities.

Wes - kd4rdb@qsl.net
http://www.qsl.net/kd4rdb

Where am I?
http://map.aprs.net/kd4rdb-9
http://map.aprs.net/kd4rdb-10

They told me I was a model employee...
A model looks just like the real thing, and does nothing!
-----Original Message-----
From: Rick Gilligan <rickg@case.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Tuesday, June 29, 1999 12:37 PM
Subject: [mic-e] Re: New IC2800-H

>On Tue, 29 Jun 1999, Rick Gilligan wrote:
>
>> Next big problem. The standard touchtone/control mic does not
>> have a PTT line! It sends a packet on mic button down and on
>> up.
>
>Uh, let me clarify my remark... the packet is from the mic's
>microprocessor to the main unit's microprocessor. I am not speaking
>of an AX.25 packet in any way.
>
>73
>Rick
>
>
>
>---
>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

19. [mic-e] Re: New IC2800-H

From: "Ed Bathgate, RMA Repair Dept x8785" <ed@fore.com>
Date: Wed, 30 Jun 1999 19:35:27 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-28154-1999.06.30-18.46.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok, Backup a moment guys,

ICOM IC-2800H the remotable color display dual band rig, right?

My AES catalog says this puppy has a 6 pin data port plug on it
for packet connection. Does this disconnect the RX audio and or
prevent using the standard mic?

Does it have RS-232 serial control?

Sounds like an application for the "learning universal remote control"
method.... Record the command signals into ram, then play the ram
back to "fake" the command signals. This could work for multiple
designs and models of rigs. If a PIC can do AX25, it can do this.

Ed N3SDO

At 07:09 PM 6/30/99 -0400, you wrote:
>Gosh, the next big "hack" will be to modify the mic to send an AX25 packet!!
>Or to modify the mic to tell the radio to QSY to 144.39, send a packet burst
>and un-QSY.... neat possibilities.
>
>Wes - kd4rdb@qsl.net
> http://www.qsl.net/kd4rdb
>
>Where am I?
>   http://map.aprs.net/kd4rdb-9
>   http://map.aprs.net/kd4rdb-10
>
>They told me I was a model employee...
>A model looks just like the real thing, and does nothing!
>-----Original Message-----
>From: Rick Gilligan <rickg@case.net>
>To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
>Date: Tuesday, June 29, 1999 12:37 PM
>Subject: [mic-e] Re: New IC2800-H
>
>
>>On Tue, 29 Jun 1999, Rick Gilligan wrote:
>>
>>> Next big problem. The standard touchtone/control mic does not
>>> have a PTT line! It sends a packet on mic button down and on
>>> up.
>>
>>Uh, let me clarify my remark... the packet is from the mic's
>>microprocessor to the main unit's microprocessor. I am not speaking
>>of an AX.25 packet in any way.
>>
>>73
>>Rick
>>
>>
>>
>>---
>>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
>>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>>
>>
>
>
>---
>You are currently subscribed to mic-e as: ed@fore.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

Ed Bathgate RMA Dept (724) 772-8785

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

July 1999

Original source file: mic-e.9907
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9907

1. [mic-e] 1999 ARRL and TAPR Digital Communications Conference

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 1 Jul 1999 14:00:26 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-28282-1999.07.01-14.10.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

1999 ARRL and TAPR Digital Communications Conference
September 24-26, 1999
Phoenix, Arizona

Web: http://www.tapr.org/dcc

It's that time again! Time to start making your travel plans and
thinking about what to publish for the upcoming 18th Annual ARRL
and TAPR Digital Communications Conference.

The 1999 ARRL and TAPR Digital Communications Conference will
be held September 24-26, 1999 in Phoenix, Arizona. This year's
conference location is just minutes away from the Phoenix Sky Harbor
International Airport (PHX).

For full details on the conference, refer to the web page listed above.

Contact TAPR to register for the DCC:

Tucson Amateur Packet Radio
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399.
phone 940-383-0000, fax 940-566-2544
e-mail tapr@tapr.org, browse http://www.tapr.org

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Re: New IC2800-H

From: "Mike Wolthuis (KB8ZGL)" <kb8zgl@wallycom.com>
Date: Fri, 2 Jul 1999 00:30:15 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-28334-1999.07.01-23.36.00--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

----- Original Message -----
From: Ed Bathgate, RMA Repair Dept x8785 <ed@fore.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Wednesday, June 30, 1999 7:35 PM
Subject: [mic-e] Re: New IC2800-H

>
> Ok, Backup a moment guys,
>
> ICOM IC-2800H the remotable color display dual band rig, right?
That's the one.
>
> My AES catalog says this puppy has a 6 pin data port plug on it
> for packet connection. Does this disconnect the RX audio and or
> prevent using the standard mic?
I don't see what prevents it, I guess I am confused. Well, just have to
hook it up here soon.
>
> Does it have RS-232 serial control?

It does?
>
> Sounds like an application for the "learning universal remote control"
> method.... Record the command signals into ram, then play the ram
> back to "fake" the command signals. This could work for multiple
> designs and models of rigs. If a PIC can do AX25, it can do this.
I just want it to work normal! :>

Mike KB8ZGL
>
> Ed N3SDO
>
>
>
>
>
>
>
> At 07:09 PM 6/30/99 -0400, you wrote:
> >Gosh, the next big "hack" will be to modify the mic to send an AX25
packet!!
> >Or to modify the mic to tell the radio to QSY to 144.39, send a packet
burst
> >and un-QSY.... neat possibilities.
> >
> >Wes - kd4rdb@qsl.net
> > http://www.qsl.net/kd4rdb
> >
> >Where am I?
> >   http://map.aprs.net/kd4rdb-9
> >   http://map.aprs.net/kd4rdb-10
> >
> >They told me I was a model employee...
> >A model looks just like the real thing, and does nothing!
> >-----Original Message-----
> >From: Rick Gilligan <rickg@case.net>
> >To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> >Date: Tuesday, June 29, 1999 12:37 PM
> >Subject: [mic-e] Re: New IC2800-H
> >
> >
> >>On Tue, 29 Jun 1999, Rick Gilligan wrote:
> >>
> >>> Next big problem. The standard touchtone/control mic does not
> >>> have a PTT line! It sends a packet on mic button down and on
> >>> up.
> >>
> >>Uh, let me clarify my remark... the packet is from the mic's
> >>microprocessor to the main unit's microprocessor. I am not speaking
> >>of an AX.25 packet in any way.
> >>
> >>73
> >>Rick
> >>
> >>
> >>
> >>---
> >>You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
> >>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >>
> >>
> >
> >
> >---
> >You are currently subscribed to mic-e as: ed@fore.com
> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >
> >
>
> Ed Bathgate RMA Dept (724) 772-8785
>
>
> ---
> You are currently subscribed to mic-e as: kb8zgl@wallycom.com
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org

To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] For Sale

From: "Gary W. Skett" <gws@smartt.com>
Date: Sun, 4 Jul 1999 20:21:16 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-28717-1999.07.05-00.47.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bought a MIC-E and installed the Garmin 25 in it. Bought a Trimble patch antenna for it too. Tried one
 weekend to interface it to a few radios and there it sits.....

Cost me $600 Canadian for all the parts....Haven't the time nor patience to do anything with it.
Selling it for $500 CDN and I'll pay the shipping. First reasonable offer takes it.

Contact Gary VE7AS at gws@smartt.com or call (604) 273-7643 between 09:00 to 16:00 (Pacific Daylight
Time)

Thanks.

4. [mic-e] Re: Mic-E Repeater help

From: "Warren A Merkel" <austin@clientprofiles.com>
Date: Wed, 7 Jul 1999 10:15:36 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29034-1999.07.07-09.22.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

From: "Bob Oesterlin" <oester@millcomm.com>
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Subject: [mic-e] Mic-E Repeater help
Date sent: Tue, 29 Jun 1999 07:10:00 -0500

> We'd like to setup the local repeater for Mic-E use. It's a Mark 4
> Repeater by Micro Control Specialties of Groveland, Mass. I'm looking for
> information on what lines to tie the KPC3+ into on the repeater side, or
> any tips on doing this.

 Hey Bob,
I don't remember seeing any replies to your question regarding the
MicEncoder to repeater connection. I designed a system for a
70cm repeater here in Orlando. I don't know anything about your
Micro Control unit but the concepts are the same.

You will need to decide how much your system will need to do.
Will it be a full service APRS Digi too? Is your current repeater on
2 meters also? That will require more effort, specifically more
pass/reject cans to keep the two systems happy.

The next paragraphs explain "one way" to accomplish a Mic-
E compatible repeater. There certainly are other ways, most likely
cheaper ways as I decided to throw money at the packet mute
issue and use two separate TNC's

In a nutshell, I set up a full service digi as normal using an original
KPC9612. I then added MicE support on the 70cm repeater by
connecting yet another TNC to listen on the 70cm RX line.
(unsquelched audio, TNC set to "CD SOFTWARE")

I then tied the transmit (audio) lines from both TNCs together to
feed the Xmitter on the 2m APRS frequency.   The second TNC is
a KPC3+ that doesn't have the new "packet mute" output the
current models have. I just added a 2N2222 inside in open
collector style to the front panel "RX" LED. Since the CD (carrier
detect) mode is set to software, the RX LED only lights when
packets are detected so I get the same effect.

This "mute" signal is used to toggle one section of a 4066 analog
switch which is inline with the CTCSS decode line going to the
70cm repeater controller. I already had a 4066 in the system for
other purposes so I used it.

When a packet is detected on the 70cm input, the CTCSS is thus
removed from the controller by the 4066 switch. The controller
thinks the user dropped PTT and thus goes thru the normal tail
cycle (which mutes the audio !) The audio delay line inside the
controller "buys" me about 200ms, just enough time to not hear
the beginning of the packet burst on the 70cm TX

I have the XCD pins on each TNC cross wired to the other TNC's
PTT line and inside, those pins are configured using the factory
jumpers to be "TX hold-off" lines. This makes each TNC wait until
the other one is not busy before transmitting. (collision detection)
Each TNC has access to the PTT line of the 2m transmitter thru a
1N4001 diode which keeps the normal PTT/XCD action separate on
each TNC.

Here is a BIG picture of my current system. The Mic-E section is
a small part of the layout so ignore the rest unless you are
interesting in some other kewl stuff !

http://www.clientprofiles.com/7k/7krepeater.jpg

Once the Mic-E modifications to the repeater are complete you can
instruct your users to set up a Memory position in their Mic-E
mobile for your repeater -- but without CTCSS Tone encode.
Hopefully, you are using CTCSS access on your repeater. Thus,
the Mic-E mobile can monitor the voice repeater, and send position
packets using the Mic-E "auto" mode, without kerchunking the
repeater endlessly.

If traveling though Orlando, give it a try!
The 70cm repeater is on 442.250 + 103.5 CTCSS.
The local APRS net is (of course) 144.39

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: Mic-E Repeater help

From: "Wes Johnston" <kd4rdb@bellsouth.net>
Date: Wed, 7 Jul 1999 17:45:10 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29064-1999.07.07-16.53.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

will the MX624 device work inplace of a mx614? it has a DTMF built in.
Wes - kd4rdb@qsl.net
  http://www.qsl.net/kd4rdb

Where am I?
   http://map.aprs.net/kd4rdb-9
   http://map.aprs.net/kd4rdb-10

Stupidity should be painfull
-----Original Message-----
From: Warren A Merkel <austin@clientprofiles.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Wednesday, July 07, 1999 10:16 AM
Subject: [mic-e] Re: Mic-E Repeater help

From: "Bob Oesterlin" <oester@millcomm.com>
To: "TAPR MIC-E & PIC-E Special Interest Group"
<mic-e@lists.tapr.org>
Subject: [mic-e] Mic-E Repeater help
Date sent: Tue, 29 Jun 1999 07:10:00 -0500

> We'd like to setup the local repeater for Mic-E use. It's a Mark 4
> Repeater by Micro Control Specialties of Groveland, Mass. I'm looking for
> information on what lines to tie the KPC3+ into on the repeater side, or
> any tips on doing this.

Hey Bob,
I don't remember seeing any replies to your question regarding the
MicEncoder to repeater connection. I designed a system for a
70cm repeater here in Orlando. I don't know anything about your
Micro Control unit but the concepts are the same.

You will need to decide how much your system will need to do.
Will it be a full service APRS Digi too? Is your current repeater on
2 meters also? That will require more effort, specifically more
pass/reject cans to keep the two systems happy.

The next paragraphs explain "one way" to accomplish a Mic-
E compatible repeater. There certainly are other ways, most likely
cheaper ways as I decided to throw money at the packet mute
issue and use two separate TNC's

In a nutshell, I set up a full service digi as normal using an original
KPC9612. I then added MicE support on the 70cm repeater by
connecting yet another TNC to listen on the 70cm RX line.
(unsquelched audio, TNC set to "CD SOFTWARE")

I then tied the transmit (audio) lines from both TNCs together to
feed the Xmitter on the 2m APRS frequency.   The second TNC is
a KPC3+ that doesn't have the new "packet mute" output the
current models have. I just added a 2N2222 inside in open
collector style to the front panel "RX" LED. Since the CD (carrier
detect) mode is set to software, the RX LED only lights when
packets are detected so I get the same effect.

This "mute" signal is used to toggle one section of a 4066 analog
switch which is inline with the CTCSS decode line going to the
70cm repeater controller. I already had a 4066 in the system for
other purposes so I used it.

When a packet is detected on the 70cm input, the CTCSS is thus
removed from the controller by the 4066 switch. The controller
thinks the user dropped PTT and thus goes thru the normal tail
cycle (which mutes the audio !) The audio delay line inside the
controller "buys" me about 200ms, just enough time to not hear
the beginning of the packet burst on the 70cm TX

I have the XCD pins on each TNC cross wired to the other TNC's
PTT line and inside, those pins are configured using the factory
jumpers to be "TX hold-off" lines. This makes each TNC wait until
the other one is not busy before transmitting. (collision detection)
Each TNC has access to the PTT line of the 2m transmitter thru a
1N4001 diode which keeps the normal PTT/XCD action separate on
each TNC.

Here is a BIG picture of my current system. The Mic-E section is
a small part of the layout so ignore the rest unless you are
interesting in some other kewl stuff !

http://www.clientprofiles.com/7k/7krepeater.jpg

Once the Mic-E modifications to the repeater are complete you can
instruct your users to set up a Memory position in their Mic-E
mobile for your repeater -- but without CTCSS Tone encode.
Hopefully, you are using CTCSS access on your repeater. Thus,
the Mic-E mobile can monitor the voice repeater, and send position
packets using the Mic-E "auto" mode, without kerchunking the
repeater endlessly.

If traveling though Orlando, give it a try!
The 70cm repeater is on 442.250 + 103.5 CTCSS.
The local APRS net is (of course) 144.39

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

You are currently subscribed to mic-e as: KD4RDB@bellsouth.net
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Posit burst at Wrong time

From: "John L. Patterson" <bpatt@worldnet.att.net>
Date: Wed, 07 Jul 1999 19:03:22 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29092-1999.07.07-21.11.11--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi...I have the MicE installed and it is doing a fine job....however
when I switch to use the repeater at the end of the transmission on the
repeater the micE sends a posit burst. I am operating in the AUTOMATIC
MODE and as described in the instruction manual I should get a posit
after a time period plus quiet time..so wonder why I am transmitting a
burst?
It seems like I am in the manual mode ...however it does its thing
automatically. I wonder if I have missed something in the setup....Thank
you for any answers...Jack...W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: Posit burst at Wrong time

From: George Carr <amsecllc@telebyte.com>
Date: Thu, 08 Jul 1999 06:59:23 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29161-1999.07.08-09.29.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

John,

It sounds like you have the toggle switch reversed. Its not hard to make
that error. Take it apart and reverse the switch. You should have a steady
green light in MANUAL until you key the mike at which time it should turn
amber during your transmission and then red at the end of your transmission
after you un-key the mike. You WILL NOT get a data burst every time, just
when the internal timer allows it. In AUTO it will do it automatically.

Good luck.

George, N7GME

John L. Patterson wrote:

> Hi...I have the MicE installed and it is doing a fine job....however
> when I switch to use the repeater at the end of the transmission on the
> repeater the micE sends a posit burst. I am operating in the AUTOMATIC
> MODE and as described in the instruction manual I should get a posit
> after a time period plus quiet time..so wonder why I am transmitting a
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> you for any answers...Jack...W9JIU
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] Re: New IC2800-H

From: Keith Sproul <ksproul@rci.rutgers.edu>
Date: Thu, 8 Jul 1999 10:42:13 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29167-1999.07.08-09.51.52--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You can use the 6-pin DATA connector on the IC-2800... It is the
EXACT same as the 6-pin connector on the Kenwood V7!

Compatibility is a VERY good thing!!

Keith

>Hi Everyone,
>I bought at Dayton the IC-2800H along with the MIC-E Kit. What a
>GREAT system. Now to get a THD7A for handheld ops, but anyways. I
>am trying to interface the MIC-e to the 2800H. >From what the
>manual says there is no receive audio on the 8pin RJ45. There is of
>course receive audio via the standard audio plug on the back, but
>that cuts of the internal speaker which I need to hear the repeater.
>I have the MIC-e setup and working GREAT with my IC-281H, but that
>radio has the same problem, where do I get receive audio without
>cutting off the internal speaker? Any help would be GREAT!
>Otherwise, what about unscquelched audio from a Kenwood TM-261a? I
>know the MIC-e doesn't have a DCD circuit so how do I acomplish all
>this?
>Thanks,
>Mike Wolthuis
>KB8ZGL
>
>My Quote:
>A quest for knowledge is never done....
>so keep on asking questions to gain whatever you can grasp...
>until the point you can learn no more!

Keith Sproul   ksproul@rci.rutgers.edu   WU2Z
Student Housing Network Coordinator   732 445-3695 W
Rutgers University Computing Services   732 821-4828 H

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Re: Stupid Question

From: Keith Sproul <ksproul@rci.rutgers.edu>
Date: Thu, 8 Jul 1999 10:38:29 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: darrellc@flash.net
Message-ID: <LYR2619-29168-1999.07.08-09.52.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A Mic-E and Pic-E are SMALL and CHEAP Transmit only TNC's They
understand GPS and transmit your positon in a SUPPER SHORT packet...
They do other things to, but this is the basics of what they do..

As the other person said, the Kenwood D7 and a GPS is the best
solution for rescue work.. It has MIC-E mode BUILT-IN to the radio...

Keith Sproul, WU2Z

>I know nothing about the Mic-E or PIC-E. Are these small transmitters
>for APRS or am I way off. Looking to build a pack mounted transmitter
>for Rescue work
>
>Darrell
>
>
>---
>You are currently subscribed to mic-e as: KSPROUL@RCI.RUTGERS.EDU
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

Keith Sproul   ksproul@rci.rutgers.edu   WU2Z
Student Housing Network Coordinator   732 445-3695 W
Rutgers University Computing Services   732 821-4828 H

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] Re: Posit burst at Wrong time

From: "John L. Patterson" <bpatt@worldnet.att.net>
Date: Thu, 08 Jul 1999 19:52:45 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29236-1999.07.08-22.01.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks George...No the auto/manual switch is installed correctly as I
noticed it would be easy to turn around when bolting it to the panel. I
did check and the LEd is green when switched to Manual..then goes amber
and finally to red. In Auto it is Off..and then goes red...I keyed it
tonight and listened with a handheld and there was no packet
transmitted...so maybe the problem has disappeared. I used most of the
same settings that were in the installation manual...so we will keep
checking.

73, Jack...W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Mic e wont initialize

From: "Pete Guimond" <N1EZT@aol.com>
Date: Sat, 10 Jul 1999 13:14:28
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29568-1999.07.10-13.22.31--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have had very good luck with the Mic e up to now.
It had been working great in auto mode(have no repeaters around here yet).
But now I went to turn it on today, the path light is yellow, regardless of
position of the switch, and the Msg light only switches red to green..Seems
like its locked in some strange mode. My laptop computer
will not communicate with Mic107.exe, neither init or reset commands work,
ptt/rcv light wont indicate a gps recieve, and it wont transmit! Any
suggestions, short of calling Tapr?? Is there a hard reset for it??
I have no idea what might have caused the failure, though the unit has been
under the seat in the car (??heat).

(The thing didnt get hit by lightning, either!)

Thanks in advance.

Pete, N1EZT.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Disregard "Mic e wont initialize" message.

From: "Pete Guimond" <N1EZT@aol.com>
Date: Sat, 10 Jul 1999 13:35:56
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29572-1999.07.10-13.44.19--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I always find it amazing that Murphy is so close at hand..

FYI, If you see these syptoms on your Mic-e. check your input voltage
from your power source FIRST! (I am running a 12 volt,30 ah sealed
lead-acid battery to power the whole aprs/gps setup..charging the battery
only from a shore-line charger..guess I need a voltmeter on the system!!)

Guess Mic-e doesnt like 7 vdc thru the regulator!!Whoops.

Pete, N1EZT.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Garmin gps25 hash

From: "Warren Merkel" <austin@magicnet.net>
Date: Sat, 10 Jul 1999 20:07:42 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29594-1999.07.10-19.16.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok guys,
I finally converted my MicEncoder to run from an internal GPS
instead of feeding in data externally.   I installed the Garmin
GPS25-LVS (from TAPR) exactly as described in the MicE

manual.   The GPS works just fine. Exceptional in fact. Aquisition
in under 20 seconds is typical from cold start.

However, now there is a very strong hashing sound mixing in with
my voice tx audio.   The hashing sound is very much like that of an
old dot-matrix printer spitting out print a line per second.   The
amplitude of the hashing noise is nearly as strong as voice audio.

I checked my MIC indentity block wiring. It is exactly the way it
should be for a Kenwood radio. Mic earth is not connected to
Power earth.

Radio: Kenwood TM-732A, using RJ45 in and out. Radio is trunk
mounted with factory separation kit.
MicE power is supplied thru the external power jack (J1) of which
the ground side is pulled from the exact same distribution point as
the radio's power feed.
MicE has the "diode mod" to prevent PTT upon MicE power down.

The GPS25 is connected using the supplied harness directly to
the MicE circuit board at the provided location using the RS-232
output as opposed to TTL serial.

GPS25 pin 4 TXD1 to JP3-pin2 NMEA-232   (JP232 ON)
GPS25 pin 8 GND to JP3-pin 5 GND
GPS25 pin 10 Vin to JP3-pin 4 Vcc

I bet there are a handful of you out there with the same setup.
Maybe not the same radio, but at least a Kenwood model with the
GPS25.

How many of you have 1) had the same problem and 2) fixed it?
As it is now, I can only use it as a tracker.

Warren A. Merkel
kd4zdd@amsat.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] help with GPS25-LVS hook-up

From: "John Szkudlarek, KA8FGE" <ka8fge@dnaco.net>
Date: Sun, 11 Jul 1999 13:17:38 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29663-1999.07.11-12.23.44--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

hello world,
i need some documentation on how to program the GPS25 to talk to
my KPC 3plus or how do i make the GPS25 and KPC 3 go?

thanks,
john.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] Re: Garmin gps25 hash

From: "Ken Wolfe" <kenwolfe@erols.com>
Date: Sun, 11 Jul 1999 21:35:18 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-29706-1999.07.11-20.44.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I never got a real answer either.
I use my Mic-E with an Alinco DR-140
The stock answer was "Yes, that problem was noticed"

Hope you have better luck than I did.

Ken N3MQV

----- Original Message -----
From: Warren Merkel <austin@magicnet.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Saturday, July 10, 1999 8:07 PM

Subject: [mic-e] Garmin gps25 hash

> Ok guys,
> I finally converted my MicEncoder to run from an internal GPS
> instead of feeding in data externally. I installed the Garmin
> GPS25-LVS (from TAPR) exactly as described in the MicE
> manual. The GPS works just fine. Exceptional in fact. Aquisition
> in under 20 seconds is typical from cold start.
>
> However, now there is a very strong hashing sound mixing in with
> my voice tx audio. The hashing sound is very much like that of an
> old dot-matrix printer spitting out print a line per second. The
> amplitude of the hashing noise is nearly as strong as voice audio.
>
> I checked my MIC indentity block wiring. It is exactly the way it
> should be for a Kenwood radio. Mic earth is not connected to
> Power earth.
>
> Radio: Kenwood TM-732A, using RJ45 in and out. Radio is trunk
> mounted with factory separation kit.
> MicE power is supplied thru the external power jack (J1) of which
> the ground side is pulled from the exact same distribution point as
> the radio's power feed.
> MicE has the "diode mod" to prevent PTT upon MicE power down.
>
> The GPS25 is connected using the supplied harness directly to
> the MicE circuit board at the provided location using the RS-232
> output as opposed to TTL serial.
>
> GPS25 pin 4 TXD1 to JP3-pin2 NMEA-232 (JP232 ON)
> GPS25 pin 8 GND to JP3-pin 5 GND
> GPS25 pin 10 Vin to JP3-pin 4 Vcc
>
> I bet there are a handful of you out there with the same setup.
> Maybe not the same radio, but at least a Kenwood model with the
> GPS25.
>
> How many of you have 1) had the same problem and 2) fixed it?
> As it is now, I can only use it as a tracker.
>
> Warren A. Merkel
> kd4zdd@amsat.org
>
> ---
> You are currently subscribed to mic-e as: KENWOLFE@EROLS.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

August 1999

Original source file: mic-e.9908
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9908

1. [mic-e] Re: Garmin gps25 hash

From: Gregory D Lapin <glapin@juno.com>
Date: Sun, 1 Aug 1999 20:10:47 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-32469-1999.08.01-11.09.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I get reports of the same kind of hash when I talk - it pulses at 1 sec
intervals, which is the same as the GPS packet rate. It goes away if I
turn off the power switch on the Mic-E.

Over a year ago I recall some discussion of something like this. I
checked the archives at TAPR and found discussion of Mic-E related ground
loops. One message said that you could get rid of the noise on the audio
if you powered the Mic-E from a battery rather than from the car's
electrical system.

I also recall some discussion of a missing ground trace on the Mic-E
circuit board, perhaps related to the regulator. However, I couldn't
find any mention of that in the archives.

I plan to look into it further when time allows.

73, Greg N9GL

On Sun, 11 Jul 1999 21:35:18 -0400 "Ken Wolfe" <kenwolfe@erols.com>
writes:
>I never got a real answer either.
>I use my Mic-E with an Alinco DR-140
>The stock answer was "Yes, that problem was noticed"
>
>Hope you have better luck than I did.
>
>Ken N3MQV
>
>----- Original Message -----
>From: Warren Merkel <austin@magicnet.net>
>To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
>Sent: Saturday, July 10, 1999 8:07 PM
>Subject: [mic-e] Garmin gps25 hash
>
>
>> Ok guys,
>> I finally converted my MicEncoder to run from an internal GPS
>> instead of feeding in data externally.   I installed the Garmin
>> GPS25-LVS (from TAPR) exactly as described in the MicE
>> manual.   The GPS works just fine. Exceptional in fact. Aquisition
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>>
>> Warren A. Merkel
>> kd4zdd@amsat.org
>>
>> ---
>> You are currently subscribed to mic-e as: KENWOLFE@EROLS.COM
>> To unsubscribe send a blank email to
>leave-mic-e-2619I@lists.tapr.org
>>
>>
>
>
>---
>You are currently subscribed to mic-e as: GLAPIN@JUNO.COM
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

_____
Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: http://dl.www.juno.com/dynoget/tagj.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Re: Garmin gps25 hash

From: "Warren Merkel" <austin@magicnet.net>
Date: Mon, 2 Aug 1999 14:30:00 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: kenwolfe@erols.com, glapin@juno.com, KE4TNO@aol.com
Message-ID: <LYR2619-32641-1999.08.02-13.39.52--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

This weekend I got a chance to diagnose the noise source a little
further. It is definitely hash on the +5V power supply line to the
GPS-25. I lifted the GPS off the posts (mic-e pcb) and found that
physical separation of the GPS from the mic-e pcb has no effect.

I thought I'd try a "alternator whine" choke lying around from the 8-
track days. It is most likely from Radio Shack (#270-030)
I wired it in series with the +5V power feed to the GPS module and
PRESTO. No hash.

Bad news is this choke is too large to fit inside the mic-e box. It is
way too big to use anyway as it is designed to handle a couple of
amps. It measures approximately 1.33 mH however so you might
be able to roll your own.   I tried a 0.100 mH RF choke (also from
Radio Shack) and it didn't have any effect.

Since I have built a really mondo kewl "Remote GPS Data Display"
using a Basic Stamp microprocessor and 4 line/20 character LCD
backlit display, the Garmin GPS will now be moving to that box
and I'll be back to feeding the mic-e NMEA data externally.   That
will most likely fix the hash problem and bring back my original
ground loop noise!

73 kd4zdd
Warren Merkel

> I get reports of the same kind of hash when I talk - it pulses at 1 sec
> intervals, which is the same as the GPS packet rate. It goes away if I
> turn off the power switch on the Mic-E.
>
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> checked the archives at TAPR and found discussion of Mic-E related ground
> loops. One message said that you could get rid of the noise on the audio
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>
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> >From: Warren Merkel <austin@magicnet.net>
> >To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> >Sent: Saturday, July 10, 1999 8:07 PM
> >Subject: [mic-e] Garmin gps25 hash
> >
> >
> >> Ok guys,
> >> I finally converted my MicEncoder to run from an internal GPS
> >> instead of feeding in data externally.   I installed the Garmin
> >> GPS25-LVS (from TAPR) exactly as described in the MicE
> >> manual.   The GPS works just fine. Exceptional in fact. Aquisition
> >
> >> in under 20 seconds is typical from cold start.
> >>
> >> However, now there is a very strong hashing sound mixing in with
> >> my voice tx audio.   The hashing sound is very much like that of an
> >
> >> old dot-matrix printer spitting out print a line per second.   The
> >> amplitude of the hashing noise is nearly as strong as voice audio.
> >>
> >> I checked my MIC indentity block wiring. It is exactly the way it
> >> should be for a Kenwood radio. Mic earth is not connected to
> >> Power earth.
> >>
> >> Radio: Kenwood TM-732A, using RJ45 in and out. Radio is trunk
> >> mounted with factory separation kit.
> >> MicE power is supplied thru the external power jack (J1) of which
> >> the ground side is pulled from the exact same distribution point as
> >
> >> the radio's power feed.
> >> MicE has the "diode mod" to prevent PTT upon MicE power down.
> >>
> >> The GPS25 is connected using the supplied harness directly to
> >> the MicE circuit board at the provided location using the RS-232
> >> output as opposed to TTL serial.
> >>
> >> GPS25 pin 4 TXD1 to JP3-pin2 NMEA-232   (JP232 ON)
> >> GPS25 pin 8 GND to JP3-pin 5 GND
> >> GPS25 pin 10 Vin to JP3-pin 4 Vcc
> >>
> >> I bet there are a handful of you out there with the same setup.
> >> Maybe not the same radio, but at least a Kenwood model with the
> >> GPS25.
> >>
> >> How many of you have 1) had the same problem and 2) fixed it?
> >> As it is now, I can only use it as a tracker.
> >>
> >> Warren A. Merkel
> >> kd4zdd@amsat.org
> >>
> >> ---
> >> You are currently subscribed to mic-e as: KENWOLFE@EROLS.COM
> >> To unsubscribe send a blank email to
> >leave-mic-e-2619I@lists.tapr.org
> >>

> >>
> >
> >
> >---
> >You are currently subscribed to mic-e as: GLAPIN@JUNO.COM
> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >
>
> ____
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: http://dl.www.juno.com/dynoget/tagj.
>
> ---
> You are currently subscribed to mic-e as: AUSTIN@MAGICNET.NET
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Re: Garmin gps25 hash

From: "Boissonneault, Martin (A)" <ve2mrx@amsat.org>
Date: Mon, 2 Aug 1999 15:01:21 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-32648-1999.08.02-14.12.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Warren!
        Got a URL for the display? Would be interested... (No display on my
Oncore ;))

                Martin VE2MRX

-----Original Message-----
From: bounce-mic-e-8868@lists.tapr.org
[mailto:bounce-mic-e-8868@lists.tapr.org]On Behalf Of Warren Merkel
Sent: Monday, August 02, 1999 13:30
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] Re: Garmin gps25 hash

        <snip>

Since I have built a really mondo kewl "Remote GPS Data Display"
using a Basic Stamp microprocessor and 4 line/20 character LCD
backlit display, the Garmin GPS will now be moving to that box
and I'll be back to feeding the mic-e NMEA data externally.   That
will most likely fix the hash problem and bring back my original
ground loop noise!

73 kd4zdd
Warren Merkel

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: Garmin gps25 hash

From: "Ken Wolfe" <kenwolfe@erols.com>
Date: Mon, 2 Aug 1999 17:33:59 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-32669-1999.08.02-16.45.16--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>
> Since I have built a really mondo kewl "Remote GPS Data Display"
> using a Basic Stamp microprocessor and 4 line/20 character LCD
> backlit display

any chance of getting some plans??

Ken N3MQV

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] GPS Display project

From: "Warren Merkel" <austin@magicnet.net>
Date: Mon, 2 Aug 1999 19:16:31 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: ve2mrx@amsat.org, kenwolfe@erols.com
Message-ID: <LYR2619-32675-1999.08.02-18.26.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Since I have built a really mondo kewl "Remote GPS Data Display"
> using a Basic Stamp microprocessor and 4 line/20 character LCD
> backlit display

>any chance of getting some plans??

>Ken N3MQV

<snip>

> Hi Warren!
>   Got a URL for the display? Would be interested... (No display on my
> Oncore ;))
>
>   Martin VE2MRX

Well, here are some pictures and a VERY basic description of the
display. I am considering publishing it if I get sufficient positive
feedback. Right now it is simply a test mule.

http://www.clientprofiles.com/display/

Warren A. Merkel
kd4zdd@amsat.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: GPS Display project

From: Jack Patterson <bpatt@worldnet.att.net>
Date: Mon, 02 Aug 1999 16:30:11 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-32677-1999.08.02-18.39.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Warren.. As a user of a tripmate and MicE I would like something
like that I could see where I am while running down the road. I would
want it to connect to the MicE transparently...if that is
possible....73, Jack...W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Remote GPS display pages updated

From: "Warren Merkel" <austin@magicnet.net>
Date: Sat, 7 Aug 1999 17:04:00 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-33256-1999.08.07-16.14.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Since I have built a really mondo kewl "Remote GPS Data Display"
> using a Basic Stamp microprocessor and 4 line/20 character LCD
> backlit display

I have reshot the photos with a "real digital camera" and added
some more. Still no diagram yet, but soon. Might be slow to load
now. 332K now in the pictures.

http://www.clientprofiles.com/display/

Warren A. Merkel
kd4zdd@amsat.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] Mic E Digipeater Installation

From: George Carr <amsecllc@telebyte.com>
Date: Mon, 09 Aug 1999 10:35:07 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: Bill Hurd <uiisilv@oly.silverlink.net>
Message-ID: <LYR2619-33485-1999.08.09-12.49.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

FYI:

A Microphone Encoder Digipeater was successfully installed at the WWRA
UHF repeater Gold Mountain site west of Bremerton, Washington on 7
August. Frequency for the WW7RA repeater operates on a frequency of
442.650MHz t 103.5Hz.

After months of testing remotely the Mic E digi was installed and tested
and is operating giving users a wide coverage.

George, N7GME

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

September 1999

Original source file: mic-e.9909
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9909

1. [mic-e] tx problem

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Fri, 10 Sep 1999 22:51:02 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-38977-1999.09.10-23.01.46--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone. There is a ham in my area that is using a mic-e in his van.
The mic-e has gone into a transmit condition with the unit powered on. I
have not had a chance to look at the parameters in his setup yet but am
wondering if someone else has seen this problem. Turning the unit off fixes
it. If it is not a software setting the I am suspicious of the transistor
that keys ptt.

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net
940.243.0754

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] ICOM IC-2800H HELP!!!!!

From: "Michael James Wolthuis" <wolthui3@pilot.msu.edu>
Date: Fri, 10 Sep 1999 23:58:47 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-38978-1999.09.10-23.07.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dear everyone,
I bought a IC-2800H in Dayton and have been trying desperately to interface the mic-e to it with no luck. If I hookup the mic from the 2800 to the mic-e without the mic-e on everything is fine, transmit and all. I assume it is passing everything straight through. As soon as I turn the mic-e on I get no PTT on the MIC from the 2800H and can not transmit. If I unplug the MIC at this point I get constant PTT. I desperately need this mic-e to work with this radio. Has anyone sucessfuly done this or does anyone have an pointers to help me! I appologize for sending this to both lists, but I wrote about a month ago with no responses. The mic-e is the TAPR kit one by the way. Thanks in advance!
Mike Wolthuis
KB8ZGL

My Quote:
A quest for knowledge is never done....
so keep on asking questions to gain whatever you can grasp...
until the point you can learn no more!

3. [mic-e] Re: ICOM IC-2800H HELP!!!!!

From: Rick Gilligan <rickg@case.net>
Date: Fri, 10 Sep 1999 23:45:37 -0700 (PDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-39012-1999.09.11-01.56.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, 10 Sep 1999, Michael James Wolthuis wrote:

> I bought a IC-2800H in Dayton and have been trying desperately to
> interface the mic-e to it with no luck. If I hookup the mic from the
> 2800 to the mic-e without the mic-e on everything is fine, transmit and
> all. I assume it is passing everything straight through. As soon as I
> turn the mic-e on I get no PTT on the MIC from the 2800H and can not
> transmit. If I unplug the MIC at this point I get constant PTT. I
> desperately need this mic-e to work with this radio. Has anyone
> sucessfuly done this or does anyone have an pointers to help me! I
> appologize for sending this to both lists, but I wrote about a month ago
> with no responses. The mic-e is the TAPR kit one by the way. Thanks in
> advance!

Check the archives for a message from me regarding the 207/2700/2710
issues.

The use the same mic as the 2800.

Basically, the mic has NO PTT. Only a data line that sends a packet on
key down and on key up. Try keying the radio, pull the mic, continues to
TX. Unkey, plug in mic, stays keyed, key it, radio unkeys, mic thinks the
opposite with the red led...

So, what you CAN do is to give up all mic features (remote) and run the
radio in "stupid mic" mode where there IS a PTT. But, it ignores any mic
data in that mode, and the mode is determined when the radio is powered
up... not on the fly. I believe you either ground a line to enter dumb
mode, or it is the opposite. Look in the service manual.

I'm not near the service manual, so I can't help more.

I don't think you are going to be successful without some way to intercept
the data packets from the mic and change them or delay them before sending
them on to the radio.

I give ICOM a big thumbs down on this design... Now all of their radios
are like this... a big step backwards.

I ended up using my MIC-E as a power supply, RS-232 level converter and
chassis for my Motorola Oncore GT+ GPS module, not as a TNC or MIC-E...

Although, I did get it working well with my Motorola GM300 Maxtrac mobile,
but that wasn't the original intent.

Sorry to bring you such bad news. While not impossible, it will be a
major undertaking to reverse engineer and build a circuit between the
radio and mic, or, reprogram the MIC-E to decode the data coming from the
mic, instead of looking for a PTT, and generating data to go to the radio.

Worth the trouble? Probably not.

Oh, giving up the remote control features of the mic? Not an option for
me, as far as I am concerned.

73
Rick

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: MIC-E problem.

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Sat, 11 Sep 1999 19:45:03 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-39090-1999.09.11-19.57.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The mod you are talking about fixes the tx problem when the unit is off.
Gerald put that on when he first bought it. It is doing is job when we turn
off the unit. This is one reason I am qurious about a transistor shorted to
ground.

Thanks Dan.

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net
940.243.0754
----- Original Message -----
From: Dan Welch - W6DFW <dan@byonics.com>
To: <kc5goi@kc5goi.net>
Sent: Saturday, September 11, 1999 6:54 PM
Subject: RE: MIC-E problem.

> There is a mod mentioned in the MIC-E archives which added a diode
> to the MIC-E to solve this problem. Check out the TAPR MIC-E archives,
> if you can't find it I'll try & dig it up
>
>
>
> Dan
>

> Email:
> dan@byonics.com
> w6dfw@qsl.net

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: MIC-E problem.

From: W7aul@aol.com
Date: Sun, 12 Sep 1999 12:39:00 EDT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-39180-1999.09.12-11.49.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has any body noticed that on the mice it computes in knots instead of miles
per hour. is there a fix for this or is it in the software. any help would be
appreciated

Dave Carter W7AUL
w7aul@aol.com
fax 1-509-735-1845
PH-1-509-735-7925

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] RE: Re: MIC-E problem.

From: "Boissonneault, Martin (A)" <ve2mrx@amsat.org>
Date: Sun, 12 Sep 1999 15:59:44 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-39215-1999.09.12-15.12.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi!
You're right, the speed IS in knots. The reason for this is that the
GPS gives it like that. The APRS format is also in knots if I remember
well. So it's not a bug?

Martin VE2MRX
[E_O_MSG]

mailto:ve2mrx@amsat.org

Martin VE2MRX
Beloeil, Quebec, Canada
FN35jn

-----Original Message-----

Has any body noticed that on the mice it computes in knots instead of
miles
per hour. is there a fix for this or is it in the software. any help
would be
appreciated

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Mic-E and Kenwood TM-642

From: "Paul M" <paul@coldnfrosty.com>
Date: Fri, 17 Sep 1999 22:10:36 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40189-1999.09.17-21.21.33--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I set up the personality header of the Mic-E as described in the
instruction booklet for a Kenwood RJ-45. I verified all the solder
connections with an ohm meter. I have tested the unit and can hear a
packet as I release the mic button. However, the unit does not appear to
be able to key the PTT line automatically. I also suspect, that when I

release the mic button, it is cutting off the packet signal since
nothing is displaying on my APRS screen. Any hints here? BTW the TM-642
is essentially a TH-742.

Thanks.

73, Paul K1ABC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] Re: Mic-E and Kenwood TM-642

From: George Carr <amsecllc@telebyte.com>
Date: Fri, 17 Sep 1999 19:43:21 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40192-1999.09.17-21.49.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Paul M wrote:
>
> I set up the personality header of the Mic-E as described in the
> instruction booklet for a Kenwood RJ-45. I verified all the solder
> connections with an ohm meter. I have tested the unit and can hear a
> packet as I release the mic button. However, the unit does not appear to
> be able to key the PTT line automatically. I also suspect, that when I
> release the mic button, it is cutting off the packet signal since
> nothing is displaying on my APRS screen. Any hints here? BTW the TM-642
> is essentially a TH-742.
>
> Thanks.
>
> 73, Paul K1ABC
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

Try settings;

TXDelay 333 miliseconds
QUIET 0

George, N7GME

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] PTT Prob Solved

From: "Paul M" <paul@coldnfrosty.com>
Date: Fri, 17 Sep 1999 23:10:48 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40193-1999.09.17-22.21.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I figured out the PTT problem, and I have the unit apparently working to
some degree. However, with APRS+SA running, my packets from the Mic-E
are only showing up on the Telemetry display, not on the map or the
history screens. Any clues? Thanks.

73, Paul K1ABC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] DCC this coming Weekend in Phoenix

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 18 Sep 1999 14:40:46 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40266-1999.09.18-14.52.36--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Don't forget that the 1999 ARRL and TAPR Digital Communications Conference
is being held this next week Sept 24-26 in Phoenix, AZ.

For more details visit: http://www.tapr.org/dcc

The tentative schedule and proceedings abstracts are now available on the
conference page.

Look forward to seeing you at this year's DCC.

Cheers - Greg Jones, WD5IVD

Greg Jones, WD5IVD
        President TAPR (http://www.tapr.org)
        PhD Candidate, Instructional Technology, UT Austin

email: wd5ivd@tapr.org
web: http://www.tapr.org/~wd5ivd

Experience is what you get when you were expecting something else.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

11. [mic-e] Is this working?

From: "Paul M" <paul@coldnfrosty.com>
Date: Sun, 19 Sep 1999 16:47:49 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40497-1999.09.19-15.59.58--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,

   I seem to have the mic-e running now. However, when I compare my
display to other mic-e stations I see, I notice I am missing some key
information such as course and speed. Any clues?

K1ABC-9
Packets Received 2
9/18/1999   9:47:31
9/18/1999   9:48:31
Messages Sent   0
Track Pts   2

Lat   42   42'   52"N   Lon   71 29' 08"W
Status   >/

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Re: [ss] Re: info

From: "Tim Cunningham" <tim_cunningham@mindspring.com>
Date: Fri, 24 Sep 1999 22:14:55 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-41398-1999.09.24-22.26.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>As to radios, any radio will work. The TM-V7A is very flexible. It will
>allow you to run APRS on VHF and allow you to talk on VHF at the same time.
>I have one and I really like it. Order the kit to mount the display in
>another place. I can never find a good place in today's cars/trucks to
>mount the radio where it is a good viewing spot.
>
>Scott

Does the TM-V7A have a PTT line on the microphone or is the PTT signal
digitally encoded from the microphone like many of the other new radio's

on the market?

I have another brand of radio I have been using with an APRS Mic-Encoder, but there is no PTT line on the microphone plug. Instead, the PTT signal is encoded on a serial stream of data to the radio from the microphone and the radio decodes the information. The APRS Mic-E does not work with this type of arrangement at all, unless you get real creative with some fancy
modifications to the radio. The radio I am using has a 1200/9600 packet connector on the back of the radio that I wired to the Mic-E, but I had to modify the radio to the get a decoded PTT signal back to the Mic-E so it would hold the PTT line at the packet jack on the radio. Unfortunately, when the PTT is dropped from the microphone, the radio unkeys before the microprocessor in the radio looks at the PTT signal at the packet jack. This
is a real pain. The result is that my signal drops momentarily when I unkey the microphone and rekeys the transmitter when it discovers that the PTT is activated from the packet jack (PTT challenged). So, when I am on a voice repeater and unkey the microphone using my Mic-E, there is a short squelch tail before the data from the Mic-E is presented at the end of a transmission. This requires the end of transmission to be longer in order for the transmitter to settle and send the APRS posit which equates to about 200-300ms longer than what it really should be if the transmitter did not
drop in the first place. Considering that most courtesy beacons are more annoying than the Mic-E posit, it may not matter anyway.

Anybody who wants to use a Mic-E or similar device on some of these new radio's should be aware of this condition as a Mic-E will not work without some radio modification if the radio does not have a dedicated PTT line. In some cases it may not be possible or require major effort.

If one wants to merely use a radio for APRS on 2M just to beacon on the APRS network, most radio's that have a packet data jack or a true hardwired old fashion PTT line on the microphone jack can be utilized. Most can be modified if they do not meet the above requirements. However, my point is specifically directed to those who may be interested in using a Mic-E or similar device to attached an APRS packet posit at the end of a voice transmission.

73's,

Tim - N8DEU
Huntsville

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: [ss] Re: info

From: smorris@mindspring.com
Date: Fri, 24 Sep 1999 23:45:54 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-41404-1999.09.24-22.54.50--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Tim,

Actually what you would want to do is use the Data connector for your TNC, and then the microphone would be used on the other band (VHF or UHF) for voice. You can have VHF running on both sides at same time.

Connectors.
    Microphone
        1   down - freq/channel control
        2   no connection
        3   MIC
        4   ground (MIC)
        5   Standby (PTT)
        6   ground
        7   DC 8v 200ma max
        8   up - freq/channel control

    Data

```
        1    Packet data input - xmit data from TNC to radio
        2    ground
        3    Packet standby - TNC can use this pin to inhibit the microphone
                                    input while transmitting packet
signals
        4    Output of 9600 bps data - also functions as common
                                    pin for 1200 and 9600 data putput
        5    output of 1200 bps data
        6    squelch control input - inhibits TNC data xmitting while
                                    radio squelch is open, prevents
                                    interference to voice on the same
freq,



----- Original Message -----
From: Tim Cunningham <tim_cunningham@mindspring.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Friday, September 24, 1999 11:14 PM
Subject: [mic-e] Re: [ss] Re: info


>
> >As to radios, any radio will work.  The TM-V7A is very flexible.  It will
> >allow you to run APRS on VHF and allow you to talk on VHF at the same
time.
> >I have one and I really like it.  Order the kit to mount the display in
> >another place.  I can never find a good place in today's cars/trucks to
> >mount the radio where it is a good viewing spot.
> >
> >Scott
>
>
>
> Does the TM-V7A have a PTT line on the microphone or is the PTT signal
> digitally encoded from the microphone like many of the other new radio's
> on the market?
>
> I have another brand of radio I have been using with an APRS Mic-Encoder,
> but there is no PTT line on the microphone plug.  Instead, the PTT signal
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> encoded on a serial stream of data to the radio from the microphone and
> the radio decodes the information.  The APRS Mic-E does not work with
> this type of arrangement at all, unless you get real creative with some
> fancy
> modifications to the radio.  The radio I am using has a 1200/9600 packet
> connector on the back of the radio that I wired to the Mic-E, but I had to
> modify the radio to the get a decoded PTT signal back to the Mic-E so it
> would hold the PTT line at the packet jack on the  radio.  Unfortunately,
> when the PTT is dropped from the microphone, the radio unkeys before the
> microprocessor in the radio looks at the PTT signal at the packet jack.
> This
> is a real pain.  The result is that my signal drops momentarily when I
unkey
> the microphone and rekeys the transmitter when it discovers that the PTT
> is activated from the packet jack (PTT challenged).  So, when I am on a
> voice repeater and unkey the microphone using my Mic-E, there is a short
> squelch tail before the data from the Mic-E is presented at the end of a
> transmission.  This requires the end of transmission to be longer in order
> for the transmitter to settle and send the APRS posit which equates to
> about 200-300ms longer than what it really should be if the transmitter
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> drop in the first place.  Considering that most courtesy beacons are more
> annoying than the Mic-E posit, it may not matter anyway.
>
> Anybody who wants to use a Mic-E or similar device on some of these new
> radio's should be aware of this condition as a Mic-E will not work without
> some radio modification if the radio does not have a dedicated PTT line.
> In some cases it may not be possible or require major effort.
>
> If one wants to merely use a radio for APRS on 2M just to beacon on the
> APRS network, most radio's that have a packet data jack or a true
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> old fashion PTT line on the microphone jack can be utilized.  Most can be
> modified if they do not meet the above requirements.  However, my point
> is specifically directed to those who may be interested in using a Mic-E
or
```

> similar device to attached an APRS packet posit at the end of a voice
> transmission.
>
>
>
> 73's,
>
> Tim - N8DEU
> Huntsville
>
>
>
>
> ---
> You are currently subscribed to mic-e as: SMORRIS@MINDSPRING.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

14. [mic-e] Re: [ss] Re: info

From: "Tim Cunningham" <tim_cunningham@mindspring.com>
Date: Fri, 24 Sep 1999 23:45:34 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-41411-1999.09.24-23.57.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am using a Mic-E instead of a TNC. A TNC is no problem as
you mention. Since the function of a Mic-E or similar device is
to fit between the microphone and the radio, it requires a
dedicated PTT line.

My earlier reference was made on radio's that encode the PTT
signal in a serial data stream where there is no dedicated PTT
line available at the microphone jack. This only applies to those
radio's that implement an encoded PTT signal from the microphone.
If I had known this prior to purchasing another brand of radio with
a Mic-E in mind, I would have made a different decision on what
manufacturer I would have chosen to make my life easier (hi,hi).

>From the information you provided on the connectors below, it
appears that the TM-V7A would work with a Mic-E with no
problem connected between the microphone and jack on the
radio. This is great news for somebody who would want to use
a Mic-E or similar device that detects the PTT on the microphone
and holds the PTT signal to the microphone jack until the data
has been sent through the audio line from the Mic-E.

Thanks for the connector information...

73's,

Tim - N8DEU

-----Original Message-----
From: smorris@mindspring.com <smorris@mindspring.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Date: Friday, September 24, 1999 10:45 PM
Subject: [mic-e] Re: [ss] Re: info

>Tim,
>
>Actually what you would want to do is use the Data connector for your TNC,
>and then the microphone would be used on the other band (VHF or UHF) for
>voice. You can have VHF running on both sides at same time.
>
>Connectors.
>   Microphone
>   1   down - freq/channel control
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>   3   MIC

>   4   ground (MIC)
>   5   Standby (PTT)
>   6   ground
>   7   DC 8v 200ma max
>   8   up - freq/channel control
>
>   Data
>   1   Packet data input - xmit data from TNC to radio
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>
>
>
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>From: Tim Cunningham <tim_cunningham@mindspring.com>
>To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
>Sent: Friday, September 24, 1999 11:14 PM
>Subject: [mic-e] Re: [ss] Re: info
>
>
>>
>> >As to radios, any radio will work. The TM-V7A is very flexible. It
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>> This
>> is a real pain. The result is that my signal drops momentarily when I
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>> the microphone and rekeys the transmitter when it discovers that the PTT
>> is activated from the packet jack (PTT challenged). So, when I am on a
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>> annoying than the Mic-E posit, it may not matter anyway.
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>> transmission.
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>>
>>
>> 73's,
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>> Tim - N8DEU
>> Huntsville
>>
>>
>>
>>
>> ---
>> You are currently subscribed to mic-e as: SMORRIS@MINDSPRING.COM
>> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>>
>>
>
>
>---
>You are currently subscribed to mic-e as: tim_cunningham@mindspring.com
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>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

15. [mic-e] Re: [ss] Re: info

From: smorris@mindspring.com
Date: Sat, 25 Sep 1999 13:56:20 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-41476-1999.09.25-13.05.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You can also contact Kenwood. They have been a great help in the past on
questions such as this.

Good luck, 73's

Scott
----- Original Message -----
From: Tim Cunningham <tim_cunningham@mindspring.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Saturday, September 25, 1999 12:45 AM
Subject: [mic-e] Re: [ss] Re: info

>
> I am using a Mic-E instead of a TNC. A TNC is no problem as
> you mention. Since the function of a Mic-E or similar device is
> to fit between the microphone and the radio, it requires a
> dedicated PTT line.
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> signal in a serial data stream where there is no dedicated PTT
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> and holds the PTT signal to the microphone jack until the data
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>
> Thanks for the connector information...
>
>
> 73's,
>
> Tim - N8DEU
>
>
>
> -----Original Message-----
> From: smorris@mindspring.com <smorris@mindspring.com>
> To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> Date: Friday, September 24, 1999 10:45 PM
> Subject: [mic-e] Re: [ss] Re: info
>
>
> >Tim,
> >
> >Actually what you would want to do is use the Data connector for your
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> >   3   MIC
> >   4   ground (MIC)
> >   5   Standby (PTT)
> >   6   ground
> >   7   DC 8v 200ma max
> >   8   up - freq/channel control
> >
> >   Data
> >   1   Packet data input - xmit data from TNC to radio
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> >   3   Packet standby - TNC can use this pin to inhibit the
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> >   4   Output of 9600 bps data - also functions as common
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> >   radio squelch is open, prevents
> >   interference to voice on the same
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> >
> >
> >
> >
> >----- Original Message -----
> >From: Tim Cunningham <tim_cunningham@mindspring.com>
> >To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
> >Sent: Friday, September 24, 1999 11:14 PM
> >Subject: [mic-e] Re: [ss] Re: info
> >
> >
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> >> >As to radios, any radio will work. The TM-V7A is very flexible. It
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> >> >allow you to run APRS on VHF and allow you to talk on VHF at the same
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> >> Anybody who wants to use a Mic-E or similar device on some of these new
> >> radio's should be aware of this condition as a Mic-E will not work
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> >>
> >> 73's,
> >>
> >> Tim - N8DEU
> >> Huntsville
> >>
> >>
> >>
> >>
> >> ---
> >> You are currently subscribed to mic-e as: SMORRIS@MINDSPRING.COM
> >> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >>
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> >
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>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

October 1999

Original source file: mic-e.9910
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9910

1. [mic-e] mic-e transmit

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Sat, 9 Oct 1999 23:36:20 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Message-ID: <LYR2619-44207-1999.10.09-23.49.42--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Got a problem with a mic-e. After you power it on it does the bulb check, turns off the ptt/rcx led and then turns the ptt led on. It briefly turns it off every 15 seconds. I have tried to reprogram the mic-e in question but it will not talk to the pc. I have swapped the mic-e pic chip with a known good one and that did not change anything. I have also compared the signals on a o-scope between the 2 and as far as the ape232 chip is concerned all it the same. The origianl pic chip has been checked in the known good mic-e and talks to the pc and behaves correctly. I removed Q4 (transistor) and while it did not allow ptt to occur it also would not light the ptt led. This does not suprise me. All it tell me is that Q4 is doing what it is told and that I dont have a short between Q4 and the led. Having the internal Garmin 25 attached or unattached does not affect it. I am begining to wonder if the inverter on the mic-e has failed. Has anyone seen simular problems?

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net
940.243.0754

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Technology Demo Day 2000

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Tue, 12 Oct 1999 22:43:09 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-44696-1999.10.12-22.59.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello eveyone on the list(s). As Chairman for Technology Demo Day it is my honor to announce that we are starting to work on TDD for the year 2000. The committee will be looking at the rules and points schemes we used in the 1999 event and how we can improve them. The committee is looking for positive comments on how we can improve TDD for everyone. You may post your comments here or on the Field Day SIG. I have attached the url that will send you to the menu that will allow you to subscribe to the list if you wish. Please make the comments in a positive manner. It is the committees goal to insure that APRS Field Day is enjoyed by all and has as many operators participating as possible.

SIG subscrition URL

http://www.tapr.org/cgi-bin/lyris.pl?enter=aprsfd&text_mode=0

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net
940.243.0754

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] DCC recap

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 14 Oct 1999 13:03:39 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "HF SIG list mailing"<hfsig@tapr.org>, " Spread Spectrum "<ss@tapr.org>,
" TAPR/AMSAT DSP "<dsp@tapr.org>,

1999 ARRL and TAPR Digital Communications Conference
September 24-26, 1999
Phoenix, Arizona
Greg Jones, WD5IVD

Another grand Digital Communications Conference! Special thanks go out to the workers at MARC for hosting locally and to PRUG for being our international co-host again. Also, a very special thanks to Geoff Baehr, N6LXA, Chief Network Officer of Sun Microsystems, for attending and giving the dinner talk on Saturday. Steve Stroh, N8GNJ, and Tina Stroh did an excellent job in working the arrangements with the hotel in Phoenix once it was selected. Tina wasn't able to attend because they are in the midst of adopting a child. Congratualtions to Tina and Steve. Sheila Bible was a big help and will be working with Tina in the coming years to help coordinate the conferences as I take a lesser role in the conference. As in the past, audio and photos from the conference will be available on the TAPR web site (http://www.tapr.org/dcc).

Next year's DCC will be hosted in Orlando, FL. The date of the conference should be selected by the end of the year.

The conference started Friday afternoon with the third annual APRS National Symposium moderated by Steve Dimse, K4HG. The symposium was full of talks and projects. During the symposium yet another new mystery hardware project was discussed. This years was a sneak preview provided by Kenwood to all those attending the DCC of their new mobile APRS equipped radio. The following people spoke at the APRS Symposium.

APRSdos and TrakNet update
Bob Bruninga, WB4APR
MacAPRS/WinAPRS Update
Keith Sproul, WU2Z
XAPRS
Keith Sproul, WU2Z
APRS+SA Update
Brent Hildebrant, KH2Z
Internet and APRS
Steve Dimse, K4HG
WinCE version
Rob Wittner, KZ5RW
Kenwood TH-D7 Tricks, Treats, and Tragedies
Stan Horzepa, WA1LOU
Arizona APRS
David McCarthy, KC7AYX
APRS ICQ
Tom Schaefer, NY4I
Microcontrollers and APRS
Steve Bible, N7HPR
APRS Working Group Update
John Ackermann, N8UR

The Friday Technical Seminar on HDTV by Allen Finne, KB5SQK was cancelled at the last minute when Allen cound not attend.

Friday night saw the annual DCC social, which was sponsored by PRUG. After the social, PRUG presented a technical paper highlighting their current development. The papers focused on what had been happening with their prototype direct-sequence radio operating in the 2.4 GHz band. This prototype appears to be very well designed from an experimentation point of view.

As with past years, Saturday was split into two strands -- a paper session and a session featuring selected topics. As in previous years, the selected topic strand had fewer topics with more time to present. Four selected topics were presented. Steve Bible, N7HPR, presented an introduction to PICs. Guy Story, KC5GOI, presented an overview to APRS and discussed some of the latest happenings in the mode. Johan Forrer, KC7WW, did an overview and current status on HF communications. Bob Nielsen, W6SWE, did a talk on the current status of Linux in the amateur community. Thanks to all the selected topic speakers for taking the time to present more in-depth materials during the DCC.

The paper sessions included the following talks:
Regulatory Issue and Update
        Dewayne Hendricks, WA8DZP
ARRL Technology Task Force & The Technology Working Group
        Rich Moseson, W2VU
Arizona Packet Radio, Past Present and Future
        Keith Justice, KF7TP & Dan Meredith, N7MRP
APRS Mic-Lite
        Bob Bruninga, WB4APR
APRS for X-Windows (Linux)
        Keith Sproul, WU2Z
Automatic Weather Bulletins via APRS
        Keith Sproul, WU2Z
APRS Generic Digipeating Satellites for HT and Mobile Satellite Communications
        Bob Bruninga, WB4APR
XML and APRS
        Steve Dimse, K4HG
APRN: Automatic Picture Relay Network and SSTV Picture Server
        Keith Sproul, WU2Z & Bob Bruninga, WB4APR
APRS Stand Alone Message Receiver
        Keith Sproul, WU2Z
Proposal for a Spread Spectrum Transponder Payload on the International
Space Station
        Matthew Ettus, N2MJI
UWB (Ultra Wide Band) Technology
        Dewayne Hendricks, WA8DZP
Status Report on TAPR 900MHz SS Radio Project
        Tom McDermott, N5EG
A Low-Cost HF Channel Simulator for Testing and Evaluating HF Digital Systems
        Johan Forrer, KC7WW
(Non Technical) Lessons to be learned from the PSK31 Phenomena
        Eduardo Jacob, EA2BAJ
A software Implementation for Federal Standard 1052 (Mil. Std. 188-110A HF
Modems)
        Robert McGwier, N4HY
A Practical Approach to Implementing HF Digital Voice in the Amateur Service
        Charles Brain, G4GUO
HamWeb and HamStation
        Dale Puckett, K0HYD

For the banquet speaker, we were very fortunate to have Geoff Baehr, N6LXA,
Chief Network Officer of Sun Microsystems. Geoff gave a very interesting
and thought-provoking talk on the future of the Internet and networking in
general and gave some comments on the future of amateur radio. We were
very fortunate to have Geoff attend the conference and much thanks goes to
Dewayne Hendricks, WA8DZP, for helping arrange another good banquet talk.

The Sunday morning seminar was a more time-intensive version of last year's
introductory session on PIC development. Steve Bible, N7HPR, Steve Dimse,
K4HG, John Hansen, W2FS, and Byon Garrabrant, N6BG gave a 5 hour long
seminar on PIC development and programming issues. They showed lots of
interesting projects and answered a lot of questions from the audience.

Thanks to all those that I missed mentioning who helped with the DCC and
I look forward to seeing you next year!

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399
---
e-mail: tapr@tapr.org   web: <http://www.tapr.org/>
ftp: ftp.tapr.org
phone: 940-383-0000   fax: 940-565-2544

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

November 1999

Original source file: mic-e.9911
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9911

1. [mic-e] bracket

From: Ray Shank <res@mail.org>
Date: Fri, 12 Nov 1999 16:31:20 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49308-1999.11.12-16.45.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know of a nice pre-manufactured under dash bracket for the
mic-e? Mine looks like &$%@Q!@#! er... poop.

Ray Shank - WA5RAY
res@mail.org - EM26eh

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] feedback

From: Ray Shank <res@mail.org>
Date: Fri, 12 Nov 1999 20:02:40 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49342-1999.11.12-20.16.33--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've been told that I have a high pitch squeal during transmit. I've used
different mics and now believe its the mic-e unit itself. Maybe feedback?

Anyone???

Ray Shank - WA5RAY
res@mail.org - EM26eh

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] RE: [Mic-e] feedback

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Sat, 13 Nov 1999 12:51:20 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49525-1999.11.13-15.04.34--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, I have experienced the same thing. Whenever I have Mic-E connected in
either of my vehicles (with Mic-E power ON or OFF), I am told that I have a
little bit of alternator whine on my voice transmissions. Others tell me it
is not objectionable, so I have not worried about it. All of my vehicles
are diesels and the alternator is the only device that could generate any
noise but I only have the problem when Mic-E is connected.

Herb, KB7UVC
NW APRS Group, West Sound Coordinator
www.nwaprs.org <http://www.nwaprs.org>

> -----Original Message-----
> From: bounce-mic-e-3832@lists.tapr.org
> [mailto:bounce-mic-e-3832@lists.tapr.org]On Behalf Of Ray Shank
> Sent: Friday, November 12, 1999 6:03 PM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] feedback
>
>
> I've been told that I have a high pitch squeal during transmit. I've used
> different mics and now believe its the mic-e unit itself. Maybe
> feedback?
>
> Anyone???
>

>
>
> Ray Shank - WA5RAY
> res@mail.org - EM26eh
>
>
> ---
> You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] RE: bracket

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Sun, 14 Nov 1999 10:13:16 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49706-1999.11.14-10.28.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I drilled and tapped four holes in the case and attached it with brackets
supplied in the Kenwood removable mount package. Makes a nice neat movable
package. The major problem was making spacers... Used electrical wire nuts
cut to size and drilled out a little. Took about an hour to put the package
together. Drill press and band saw helps but not essential...
I also tied the twelve volt wires together into a common plug and made a
mike cable from the radio to the back of the MIC-e. This cable runs between
the two units (underneath the MIC-E and over the Kenwood). I use mine
primarily as a tracker unit and the microphone rides in the glove
compartment... Moves fast and easy, all I have to do is plug in the 12 volts
and attach the antenna and GPS.

Joe Dorn, W5VEX, Belton, Texas

-----Original Message-----
From: bounce-mic-e-9285@lists.tapr.org
[mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of Ray Shank
Sent: Friday, November 12, 1999 4:31 PM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] bracket

Does anyone know of a nice pre-manufactured under dash bracket for the
mic-e? Mine looks like &$%@Q!@#! er... poop.

Ray Shank - WA5RAY
res@mail.org - EM26eh

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] RE: [Mic-e] feedback

From: "Mike Wolthuis (KB8ZGL)" <kb8zgl@wallycom.com>
Date: Sun, 14 Nov 1999 13:22:08 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49714-1999.11.14-12.33.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Please let me know if figure out how to solve this. I have a TAPR mic-e and
I have the same problem. I unhhok it from my radio and have no whine at
all, but I hoot it up and people tell me I have non-objectionable whine.

Thanks,
Mike
kb8zgl

----- Original Message -----
From: Herb Gerhardt, KB7UVC <gerhardt@hctc.com>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Saturday, November 13, 1999 3:51 PM
Subject: [mic-e] RE: [Mic-e] feedback

> Yes, I have experienced the same thing. Whenever I have Mic-E connected
in
> either of my vehicles (with Mic-E power ON or OFF), I am told that I have
a
> little bit of alternator whine on my voice transmissions. Others tell me
it
> is not objectionable, so I have not worried about it. All of my vehicles
> are diesels and the alternator is the only device that could generate any
> noise but I only have the problem when Mic-E is connected.
>
> Herb, KB7UVC
> NW APRS Group, West Sound Coordinator
> www.nwaprs.org <http://www.nwaprs.org>
>
>
> > -----Original Message-----
> > From: bounce-mic-e-3832@lists.tapr.org
> > [mailto:bounce-mic-e-3832@lists.tapr.org]On Behalf Of Ray Shank
> > Sent: Friday, November 12, 1999 6:03 PM
> > To: TAPR MIC-E & PIC-E Special Interest Group
> > Subject: [mic-e] feedback
> >
> >
> > I've been told that I have a high pitch squeal during transmit. I've
used
> > different mics and now believe its the mic-e unit itself.   Maybe
> > feedback?
> >
> > Anyone???
> >
> >
> >
> > Ray Shank - WA5RAY
> > res@mail.org - EM26eh
> >
> >
> > ---
> > You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
> > To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> >
>
>
> ---
> You are currently subscribed to mic-e as: kb8zgl@wallycom.com
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Mic-E freq? Help, please.

From: "Patrick Vadnais" <n6yuj@hotmail.com>
Date: Mon, 22 Nov 1999 14:47:03 PST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-51438-1999.11.22-17.00.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi All,

Just a quick couple of questions.
1. Where might I find a list of Mic-E compatible machines here in Northern
Calif?
2. Am I required to keep my radio on the mic-e compatible repeater or does
the device quickly jupm to the compatible freq and then back to the one that
I am using (which might not be the mic-e compatible machine)

Thanks for any help.   73, Pat N6YUJ

_____
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You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

December 1999

Original source file: mic-e.9912
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.9912

1. [mic-e] Possible descrepancy in the MIC-E Protocol Definition

From: John Hansen <hansen@fredonia.edu>
Date: Tue, 14 Dec 1999 12:24:58 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: ianwade@netro.co.uk, Urs.Haechler@compaq.com
Message-ID: <LYR2619-55138-1999.12.14-11.44.48--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi:

I'm wondering if anyone can resolve the following issue for me. When I wrote the GPS-E-2 code, I used the MIC-E protocol as listed on the TAPR website. For longitudes between 0 and 9 degrees, this protocol seems to indicate that one should add 190 to the value for the number of degrees (and then of course, add 28). So, for example, if I'm reading this spec right, for a longitude of 7 degrees, one should have a value of 7+190+28 = 225 or 0xE1. This is the value that is produced by the PIC-E running the GPS-E-2 code.

Now here's the interesting part. A ham Switzerland reported that that WinAPRS gives the wrong position when using the GPS-2-E. He tried both the MIC-E and the Kenwood D7 and discovered that at 7 degrees longitude, they produce a value of 0x7D (or 125 in decimal) for 7 degrees longitude. After subtracting the obligatory 28, this would be a value of 97, implying that 90 had been added instead of the 190 that seems to be called for in the protocol specification. Both the MIC-E and the D7 reportedly produce the correct position on WinAPRS when using this value.

Now, one of two things is possible here. Either I'm misreading the specification, or the specification doesn't correspond to what is actually being used in the MIC-E and the D7. I'm wondering if someone could please set me right on this issue. BTW, this same algorithm is being used in the new specification, so if there is a problem with the old one, there is a problem with the new one too.

Thanks for your advice,

John W2FS

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] Re: Possible descrepancy in the MIC-E Protocol Definition

From: Ian Wade <ian@dowrmain.demon.co.uk>
Date: Wed, 15 Dec 1999 17:07:33 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: mic-e@lists.tapr.org, ianwade@netro.co.uk, Urs.Haechler@compaq.com,
picsig@lists.tapr.org, Bob Bruninga <bruninga@nadn.navy.mil>
Message-ID: <LYR2619-55310-1999.12.15-11.23.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In message <4.2.0.58.19991214121007.01635220@oak.ait.fredonia.edu>, John Hansen <hansen@fredonia.edu> writes
>Hi:
>
> I'm wondering if anyone can resolve the following issue for me. When I
>wrote the GPS-E-2 code, I used the MIC-E protocol as listed on the TAPR
>website. For longitudes between 0 and 9 degrees, this protocol seems to
>indicate that one should add 190 to the value for the number of degrees
>(and then of course, add 28). So, for example, if I'm reading this spec
>right, for a longitude of 7 degrees, one should have a value of 7+190+28 =
>225 or 0xE1. This is the value that is produced by the PIC-E running the
>GPS-E-2 code.
>
> Now here's the interesting part. A ham Switzerland reported that that
>WinAPRS gives the wrong position when using the GPS-2-E. He tried both the
>MIC-E and the Kenwood D7 and discovered that at 7 degrees longitude, they
>produce a value of 0x7D (or 125 in decimal) for 7 degrees longitude. After
>subtracting the obligatory 28, this would be a value of 97, implying that
>90 had been added instead of the 190 that seems to be called for in the
>protocol specification. Both the MIC-E and the D7 reportedly produce the

>correct position on WinAPRS when using this value.

John, I think you may have fallen into the same trap as I did when I started trying to understand this thing. The Mic-E documentation on the TAPR site tells you how to DEcode Mic-E data. It does *not* tell you how to ENcode it.

When I wrote up the Mic-E section in the APRS Protocol spec I had to do a lot of detective work to find out how it really ticks! Here are my conclusions re the longitude computations, which seem to fit the facts when checking against real on-air data. I stress that all of the following is supposition on my part, so confirmation or otherwise from *anyone* will be most welcome.

All of the numbers below are decimal.

1. The transmitted characters are always 7 bit. This means that the highest ASCII code is 127.

2. The widest required contiguous number range is 0-99, for hundredths of minutes of longitude. Thus the transmitted ASCII codes will be in the range 28-127.

3. Except for the h+28 value, where the ASCII char can take any value in the range 28-127, the lowest transmitted value is actually 38, not 28. This is presumably to make the character printable -- this almost works; the exception is when the ASCII code is 127.

4. If the longitude degrees is in the range 0-9, the transmitted values are *not* in the range 28-37. They are in the range 118-127, WITH THE LONGITUDE OFFSET BIT SET. (I have seen this in practice: in the east of England where the longitude just reaches one degree east, a TH-D7 transmits "w", equivalent to ASCII code 119. This really threw me at first, because I noted that the +100 degrees offset bit was set, and wondered how on earth that could be correct if the longitude was only one degree!). This also correlates with your report from the Italian station, where a longitude of 7 degrees produces an ASCII code of 125. Have you asked him if the longitude offset bit was set? I bet it was.

5. If the longitude degrees is in the range 100-109, the transmitted values are *not* in the range 28-37. They are in the range 108-117.

6. To confirm all of this, here is a Mickey Mouse BASIC program I wrote:

~~~~~~~~~~~~~~~~~~~~~~~~
```
REM MIC-E.BAS
CLS

OPEN "C:\APRS\LONG.DAT" FOR OUTPUT AS #1

FOR offset = 0 TO 1
        FOR N = 28 TO 127
        D = N - 28
        IF offset = 1 THEN D = D + 100
        LON = D
        IF D >= 180 AND D <= 189 THEN LON = D - 80
        IF D >= 190 AND D <= 199 THEN LON = D - 190
        PRINT #1, "offset: "; offset, "N: "; N; " "; CHR$(N), "D: "; D,
"LONG: "; LON
        NEXT N
NEXT offset
CLOSE
```
~~~~~~~~~~~~~~~~~~~~~~~~

Here is some of the output (I've added an asterisk against the LONG values that I believe are *not* transmitted). Note the +100 degree offset in the left-hand column carefully:

~~~~~~~~~~~~~~~~~~~~~~~~

```
offset:  0    N:  28       D:  0         LONG:  0 *
offset:  0    N:  29       D:  1         LONG:  1 *
offset:  0    N:  30       D:  2         LONG:  2 *
offset:  0    N:  31       D:  3         LONG:  3 *
offset:  0    N:  32        D:  4         LONG:  4 *
offset:  0    N:  33  !     D:  5         LONG:  5 *
offset:  0    N:  34  "     D:  6         LONG:  6 *
offset:  0    N:  35  #     D:  7         LONG:  7 *
```
~~~~~~~~~~~~~~~~~~~~~~~~

```
offset:  0    N:  36  $     D:  8         LONG:  8 *
offset:  0    N:  37  %     D:  9         LONG:  9 *
offset:  0    N:  38  &     D:  10        LONG:  10
offset:  0    N:  39  '     D:  11        LONG:  11
offset:  0    N:  40  (     D:  12        LONG:  12
----
offset:  0    N:  125  }    D:  97        LONG:  97
offset:  0    N:  126  ~    D:  98        LONG:  98
offset:  0    N:  127  □    D:  99        LONG:  99
offset:  1    N:  28       D:  100       LONG:  100 *
offset:  1    N:  29       D:  101       LONG:  101 *
offset:  1    N:  30       D:  102       LONG:  102 *
offset:  1    N:  31       D:  103       LONG:  103 *
offset:  1    N:  32        D:  104       LONG:  104 *
offset:  1    N:  33  !     D:  105       LONG:  105 *
offset:  1    N:  34  "     D:  106       LONG:  106 *
offset:  1    N:  35  #     D:  107       LONG:  107 *
offset:  1    N:  36  $     D:  108       LONG:  108 *
offset:  1    N:  37  %     D:  109       LONG:  109 *
offset:  1    N:  38  &     D:  110       LONG:  110
offset:  1    N:  39  '     D:  111       LONG:  111
offset:  1    N:  40  (     D:  112       LONG:  112
------
offset:  1    N:  106  j    D:  178       LONG:  178
offset:  1    N:  107  k    D:  179       LONG:  179
offset:  1    N:  108  l    D:  180       LONG:  100
offset:  1    N:  109  m    D:  181       LONG:  101
offset:  1    N:  110  n    D:  182       LONG:  102
offset:  1    N:  111  o    D:  183       LONG:  103
offset:  1    N:  112  p    D:  184       LONG:  104
offset:  1    N:  113  q    D:  185       LONG:  105
offset:  1    N:  114  r    D:  186       LONG:  106
offset:  1    N:  115  s    D:  187       LONG:  107
offset:  1    N:  116  t    D:  188       LONG:  108
offset:  1    N:  117  u    D:  189       LONG:  109
offset:  1    N:  118  v    D:  190       LONG:  0
offset:  1    N:  119  w    D:  191       LONG:  1
offset:  1    N:  120  x    D:  192       LONG:  2
offset:  1    N:  121  y    D:  193       LONG:  3
offset:  1    N:  122  z    D:  194       LONG:  4
offset:  1    N:  123  {    D:  195       LONG:  5
offset:  1    N:  124  |    D:  196       LONG:  6
offset:  1    N:  125  }    D:  197       LONG:  7
offset:  1    N:  126  ~    D:  198       LONG:  8
offset:  1    N:  127  □    D:  199       LONG:  9
~~~~~~~~~~~~~~~~~~~~~~
```

My bottom line conclusion is that the original Mic-E documentation is actually correct (in this respect at least, but not in others :-(

Does this make sense?

Next question :-) How are *minutes* of longitude transmitted? The spec says that if D>=60, then subtract 60. I wonder if it offsets the first 10 values in the same way as for degrees, so that 0-9 minutes is actually transmitted as ASCII codes 88-97.

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

```
--
+-------------------------------------------------------------------+
| APRS on 144.800  [IO91SX]         ~55km/35 miles NNW of London  |
|                     email: g3nrw@arrl.net                         |
|                                                                   |
| APRS PROTOCOL SPEC:   http://www.tapr.org/tapr/html/Faprswg.html|
+-------------------------------------------------------------------+

---
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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
```

3. [mic-e] IC-2800H and TAPR MIC-e

From: "Mike Wolthuis \(KB8ZGL\)" <kb8zgl@wallycom.com>
Date: Wed, 15 Dec 1999 13:11:03 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>

Message-ID: <LYR2619-55324-1999.12.15-12.22.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I know this has been asked before, but I have seen nobody resolve it or get
it working. I am afraid I am at ends here trying otptions people have sent.
I have the ICOM IC-2800H, brand new radio with LCD video monitor. I have it
hooked into my TAPR MIC-e, problems are:

If MIC-e is off, everything works fine, mic controls radio perfectly, PTT
and all.

Turn MIC-e on and pushing PTT does nothing. Unplug microphone and radio
PTTS constantly, I mean it stays transmitting until MIC is reattached and
then the MIC-e power cycled.

I have tried just about everything I can think of besides going insane and
selling the radio. I love the radio though.

HELP!
Thanks,
Mike Wolthuis
KB8ZGL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: IC-2800H and TAPR MIC-e

From: Rick Gilligan <rick@case.net>
Date: Wed, 15 Dec 1999 20:28:32 -0800 (PST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-55388-1999.12.15-22.43.34--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Wed, 15 Dec 1999, Mike Wolthuis (KB8ZGL) wrote:

> I know this has been asked before, but I have seen nobody resolve it or get
> it working. I am afraid I am at ends here trying otptions people have sent.
> I have the ICOM IC-2800H, brand new radio with LCD video monitor. I have it
> hooked into my TAPR MIC-e, problems are:

Check the APRS-SIG archives from June 1999 for a string of messages (some
I wrote).

If you want to use the standard mic with it, I don't think you are likely
to be successful. If you ground the line which indicates a "normal" mic
(not the factory standard mic), you do get a real PTT line which should
work just fine with a "normal" mic (losing all of the cool remote control
functions of the factory standard mic).

Sorry to bring such bad news. Perhaps you should complain to ICOM. All
of their radios now use the mic with a data line replacing a real PTT.
Not very forward looking of them...

I guess I'll be buying Yaesu from now on.

73
Rick
N6NL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Test

From: Ian Wade <ian@dowrmain.demon.co.uk>
Date: Fri, 17 Dec 1999 06:16:20 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-55577-1999.12.17-00.33.29--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just subscribed. Let's see if this makes it.

73
Ian, G3NRW

Technical Editor, APRS Protocol Specification

--
+--+
| APRS on 144.800 [IO91SX]   ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
+--+

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Standard and Custom messages

From: Ian Wade <ian@dowrmain.demon.co.uk>
Date: Fri, 17 Dec 1999 06:52:14 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-55586-1999.12.17-01.08.04--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I need to verify my understanding of how Mic-E encodes standard and
custom messages. Could someone please fire up their Mic-E and tell me:

1. The latitude of your station.

2. The destination address transmitted for *standard* message #3
   (Returning).

3. The destination address transmitted for *custom* message #3.

(N.B. I need this information from a *Mic-E*, not a PIC-E).

>From the Mic-E manual, I assume that you distinguish standard message 3
from custom message 3 by setting the "Msg" switch on the front panel to
"SSID 3" or "DIGI 3". Is this correct? If so, what do the modes "SSID"
and "DIGI" mean in relationship to messages? I don't see how these modes
are in any way related to messages.

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+--+
| APRS on 144.800 [IO91SX]   ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
+--+

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: [aprsspec] Mic-E Destination Address Field

From: Ian Wade <ian@dowrmain.demon.co.uk>
Date: Sat, 18 Dec 1999 22:35:03 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-55839-1999.12.18-16.51.06--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

In article <LYR11659-55464-1999.12.16-13.32.33--ian#dowrmain.demon.co.uk@l
ists.tapr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes
>The following related comments apply to Chapter 10, APRS Protocol Version
>1.0. For these comments, LSB is numbered as zero.
>
>1. Page 37. There appears to be inadequate definition in MIC-E
>Destination Address Field-
>The fifth bit in each of the first 6 bytes of the destination field is not
>adequately defined. It is shown by the symbol "x" (the 9th bullet on page
>37) which we are told is either a 0 or 1. However, there is no definition
>of where the 0 or 1 come from. We can handle the value of x as being part
>of the bit pattern for the corresponding letter and then follow the table.
>However, what is the purpose of the "x" parameter? The condition
>corresponding to 0 and the condition corresponding to 1 should be
>specified...unless it's a secret! It it just a flag to indicate the
>shifted sequence? If so, why even bother since the P thru Z sequence could
>convey the same information.

>
>2. page 38. The convention on latitude digit for letters A thru K is not
>clear-
>The representation on page 37 indicates the latitude digits are the
>numerical value of the nibble made up of bits 1 thru 4 (shown as "dddd" in
>the 1st and 2nd bytes, "mmmm" in the 3rd and 4th bytes and "hhhh" in the
>5th and 6th bytes). For the letter "A", the nibble is 0001. This is
>clearly the decimal value 1, not the decimal value 0 shown in the upper
>table on page 38. For "B", the corresponding nibble is 0010 which is the
>decimal value 2, not the decimal value 1 shown in the table, etc. for the
>remaining letters in the A to J sequence. They are all shifted by 1.
>Possibly the notation "(custom)" in the table indicates it is a look-up
>table (consisting of a offset-by-one pattern) for the A to J sequence
>rather then the numerical value of the nibble (which would make more
>sense!). If so, it should be stated- and one would wonder the reason (and
>value) for this difference in representation over the more straight-forward
>direct numerical value of the nibble.
>
>
>I may have missed some reason for the above. Explanation or corrections of
>interpretation would be appreciated.

Hi Lief.

The key to all of this is the table at the top of page 38 of the APRS
Protocol spec draft (Mic-E Destination Address Field Encoding). It shows
all of the possible ASCII characters (that will be left-shifted by one bit
on transmission, per the AX.25 spec) for the first six address bytes.

Example 1: From the table, if the first address byte contains the letter
"S", it represents the latitude digit "3" and a *standard* message "1"
bit. The corresponding transmitted bit pattern is 10100110 (i.e. the
letter "S" shifted one bit left). In this case, the "x" bit (bit 5) is
"1".

Example 2: From the table, if the first byte contains the letter "D", it
again represents the latitude digit "3", but this time with the *custom*
message bit set. The transmitted bit pattern is 10001000 (i.e. "D" left
shifted). In this case, bit 5 is "0".

So this shows how bit 5 can be either a "1" or a "0".

NOTE: In example 1, the latitude value corresponds to bits 1-4 (0011), but
in example 2, the latitude value is one less than the value of bits 1-4
(as you correctly pointed out).

This means that there is actually an error in the documentation on page
37. The first bullet (under the format diagram) should read:

~~~~~~~~~~~~~~~~
* Six encoded latitude 4-bit nibbles specifying degrees, minutes ... etc

~~~~~~~~~~~~~~~~

That is, the word "encoded" replaces "binary-coded-decimal", since the
nibble is not necessarily a BCD digit as originally stated.

Bottom line: the table at the top of page 38 is the fundamental definition
of the address encoding. I will be changing much of the the text on page
37 to emphasize this. I will also be adding examples like the ones above.

Sorry for any confusion -- this thing had me confused for months before I
finally cracked it!

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

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+--+
| APRS on 144.800 [IO91SX]   ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html|
+--+

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] APRSdigi for mic-E repeater?

From: Roger Grady <k9opo@netusa1.net>
Date: Fri, 24 Dec 1999 16:12:18 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-56629-1999.12.24-15.24.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anybody know if the APRSdigi software can be used with a KISS TNC to
process the APRS packets coming over a mic-E voice repeater? We have an MFJ
TNC and would like to not have to buy a KPC-3+, given that old computers
which will run APRSdigi are virtual throwaway items these days.

Roger Grady K9OPO

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Three License Classes, One Code Speed

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Thu, 30 Dec 1999 19:42:10 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "tn_skywarn@onelist.com" <tn_skywarn@onelist.com>,
"tnham@qth.net" <tnham@qth.net>
Message-ID: <LYR2619-57340-1999.12.30-18.58.33--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Amateur Restructuring is Here:
Three License Classes, One Code Speed

de n1rl@arrl.org

NEWINGTON, CT, Dec 30, 1999 --
Amateur Radio will get a new look in the new millennium.
The FCC today issued its long-awaited Report and Order in the
`1998 Biennial Regulatory Review of Part 97 --
more commonly known as "license restructuring."
The bottom line is that starting April 15, 2000,
there will be three license classes --
Technician, General, and Amateur Extra --
and a single Morse code requirement--5 WPM.

"We believe that an individual's ability to demonstrate
increased Morse code proficiency is not
necessarily indicative of that individual's ability to
contribute to the advancement of the radio art," the FCC said.

Besides drastically streamlining the Amateur Radio licensing
process, the FCC said its actions would
"eliminate unnecessary requirements that may discourage or
limit individuals from becoming trained operators, technicians,
and electronic experts."

Although no new Novice and Advanced licenses will be
issued after the effective date of the Report and Order,
the FCC does not plan to automatically upgrade any
existing license privileges.
The ARRL had proposed a one-time across-the-board
upgrading of current Novice and Tech Plus licensees to
General class, but the FCC declined to adopt the idea.
This means that current licensees will retain their
current operating privileges, including access to various
modes and subbands, and will be able to renew
their licenses indefinitely.

Starting April 15, 2000, individuals who qualified for the
Technician class license prior to March 21, 1987,
will be able to upgrade to General class by providing
documentary proof to a Volunteer Examiner
Coordinator, paying an application fee,
and completing FCC Form 605.

The FCC's decision not to automatically upgrade Novice and
Tech Plus licensees means the current Novice/Tech Plus HF
subbands will remain and not be "refarmed" to higher class

licensees as the ARRL had proposed.
The FCC said it did not refarm these subbands because there was "no consensus" within the amateur community as to what to do with them.

As it had proposed earlier, the FCC decided to lump Technician and Tech Plus licensees into a single licensee database, all designated as "Technician" licensees. Those who can document having passed the 5 WPM Morse code examination will continue to have the current Tech Plus HF privileges.
"If documentation is needed to verify whether a licensee has passed a telegraphy examination, we may request the documentation from that licensee or the VECs," the FCC said.

In addition to reducing the number of license classes from six to three and eliminating the 20 and 13 WPM code tests, the FCC also will reduce the number of written examination elements from five to three, authorize Advanced Class hams to prepare and administer General class examinations, and eliminate Radio Amateur Civil Emergency Service (RACES) station licenses. RACES will remain,however.
"After review of the record, we conclude that we should eliminate RACES station licenses because RACES station licenses are unnecessary for amateur stations and amateur service licenses to provide emergency communications"

Under the new licensing scheme, there will be four examination elements.
Element 1 will be the 5 WPM Morse code exam.
Element 2 will be a 35-question written test to obtain a Technician license
Element 3 will be a 35-question written test to obtain a General license
Element 4 will be a 50-question written test for the Amateur Extra license.
The FCC has left it in the hands of the National Conference of VECs Question Pool Committee to determine the specific mix and makeup of written examination questions. Current Amateur Radio study materials remain valid at least until the new rules become effective in April.

The FCC's new licensing plan means someone will be able to become a ham by passing a single 35-question written examination. The plan also simplifies and shortens the upgrade path from the ground floor through Amateur Extra--especially since amateurs will only have to pass one Morse code test.

Elimination of the 13 and 20 WPM Morse requirements also means an end to physician certification waivers for applicants claiming an inability to pass the Morse code examination due to physical handicap.

The effective date provides a window of upgrade opportunity for current Advanced licensees.
Between now and April 15, current Advanced holders may take the existing Element 4B, a 40-question test, giving them credit for having passed the current Extra written examination.
Likewise, holders of a Certificate of Successful Completion of Examination (CSCE) for Elements 3B or 4B dated on or after April 17, 1999, will be able to qualify for General or Amateur Extra respectively when the new rules go into effect on April 15, 2000.

The FCC disagreed with the League's suggestion that it undertake a restructuring of operating privileges along with licensing restructuring.
"We believe that in light of ongoing discussions concerning implementation of new and more modern communications technologies within the amateur service community, we should accord the amateur service community an opportunity to complete such discussions and possibly reach a consensus regarding implementation of new technologies before we undertake a comprehensive restructuring of the amateur service operating privileges and frequencies," the FCC said in its Report and Order.

In its amendments to Part 97, the FCC's Report and Order refers to a "Club Station Call Sign Administrator," something that does not exist under the current rules and which was not explained in the R&O itself.
An FCC spokesperson said the Commission plans to issue a Public Notice soon to explain the program and to solicit qualified

entities to serve as call sign administrators for club station applications.

A copy of the entire Report and Order (FCC 99-412) is available from the FCC Web site in plain text.

http://www.fcc.gov/Daily_Releases/Daily_Business/1999/db991230/fcc99412.txt

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You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

January 2000

Original source file: mic-e.0001
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0001

1. [mic-e] Dimension/Power

From: "Hassan Beydoun" <HassanBeydoun@email.msn.com>
Date: Fri, 28 Jan 2000 20:9:31
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-63174-2000.01.28-20.06.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am intrested in the Dimension and the power consumption of the Pic-E. if
it's possible of providing theses information that would be great.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] RE: Dimension/Power

From: "Steven R. Bible" <n7hpr@amsat.org>
Date: Sun, 30 Jan 2000 22:10:47 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-63545-2000.01.30-21.07.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Hassen,

The physical diamensions of the PIC-E are 3.0" x 3.25"

Power consumption is PIC16F84 = 2 mA + MX614 = 1.7 mA; Total = 3.7 mA.

- Steve, N7HPR

> -----Original Message-----
> From: bounce-mic-e-3968@lists.tapr.org
> [mailto:bounce-mic-e-3968@lists.tapr.org]On Behalf Of Hassan Beydoun
> Sent: Friday, January 28, 2000 8:01 PM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] Dimension/Power
>
>
> I am intrested in the Dimension and the power consumption of
> the Pic-E. if
> it's possible of providing theses information that would be great.
>
> ---
> You are currently subscribed to mic-e as: SRBIBLE@GATE.NET
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] RE: Dimension/Power

From: "Steven R. Bible" <srbible@gate.ner>
Date: Mon, 31 Jan 2000 17:24:40 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "Jeff King" <jeff@aerodata.net>
Message-ID: <LYR2619-63711-2000.01.31-16.21.55--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yes, I did neglect them. That'll be another 15 mA for the POWER ON LED
and 15 mA for the VALID led, and since everything else is intermitant
(PTT and ACTIVE), that should sum it up. Right? Oh yea, standby
current for the 7805. All total approximately 35-40 mA.

I know that I can power my PIC-E from a 9-volt transistor battery for
3-4 days.

I am well. Busy but well :-) Thanks!

- Steve

> -----Original Message-----
> From: Jeff King [mailto:jeff@aerodata.net]
> Sent: Sunday, January 30, 2000 11:50 PM
> To: Steven R. Bible
> Subject: Re: [mic-e] RE: Dimension/Power
>
>
> OFF LIST
>
> Steve:
>
> He asked for the power consumption of the PIC-E. The LED's, pull-up
> resistors and standby current of the 7805 all will add up.
> Still not much
> but more then the MX614 and PIC alone (or did you take this
> into account?)
>
> Hope you well
>
> 73
>
> Jeff
>
>
> At 10:10 PM 1/30/00 -0500, you wrote:
> >Hello Hassen,
> >
> >The physical diamensions of the PIC-E are 3.0" x 3.25"
> >
> >Power consumption is PIC16F84 = 2 mA + MX614 = 1.7 mA; Total
> = 3.7 mA.
> >
> >
> >- Steve, N7HPR
> >
> >
> >> -----Original Message-----
> >> From: bounce-mic-e-3968@lists.tapr.org
> >> [mailto:bounce-mic-e-3968@lists.tapr.org]On Behalf Of
> Hassan Beydoun
> >> Sent: Friday, January 28, 2000 8:01 PM
> >> To: TAPR MIC-E & PIC-E Special Interest Group
> >> Subject: [mic-e] Dimension/Power
> >>
> >>
> >> I am intrested in the Dimension and the power consumption of
> >> the Pic-E. if
> >> it's possible of providing theses information that would be great.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

February 2000

Original source file: mic-e.0002
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0002

1. [mic-e] Packet software

From: "larry Licht" <llicht@uswest.net>
Date: Sun, 27 Feb 2000 16:48:2
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-68303-2000.02.27-16.46.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Which program do I download to the PIC for standard 1200 baud packet?

Larry

WA2ATF

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] [Fwd: Wx Data/GPS to single TNC]

From: George Carr <amseclic@telebyte.com>
Date: Mon, 28 Feb 2000 12:09:08 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-68446-2000.02.28-14.59.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

[Empty message body]

3. [mic-e] Re: Packet software

From: Richard Strauss <RWSTRAUSS@worldnet.att.net>
Date: Mon, 28 Feb 2000 19:21:15 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-68497-2000.02.28-19.20.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Sorry Larry, I don't have a PIC-E. The Mic-E I do have uses the
MIC107.EXE program which came with the unit;.
73,
Rick WB9HKE

larry Licht wrote:

> Which program do I download to the PIC for standard 1200 baud packet?
>
> Larry
>
> WA2ATF
>
> ---
> You are currently subscribed to mic-e as: RWSTRAUSS@worldnet.att.net
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Mic-E Overmodulates Radio

From: Gregory D Lapin <glapin@juno.com>
Date: Tue, 29 Feb 2000 19:59:10 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-68654-2000.02.29-19.59.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a problem where my radio (Alinco DR-1200) is adjusted properly for
the microphone that I am using. The packets from the Mic-E overmodulate
and are not readable by many TNCs.

When I turn the Tx Level pot down, I nearly reach the end of CCW travel
and the digital packet is still overmodulating. If I turn it a touch
more, the packets deviate about 1/4 of full modulation (+/- 1 kHz).

The Tx level pot is not dirty or discontinuous (I measured the resistance

as I turned it).

I don't have a schematic to know how this pot regulates the Tx level.

Does anyone have a known solution for this problem? If not, where can I
get a schematic of the Mic-E to help understand what is going on?

73 Greg N9GL

_____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

March 2000

Original source file: mic-e.0003
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0003

1. [mic-e] Re: Mic-E Overmodulates Radio

From: Richard Strauss <RWSTRAUSS@worldnet.att.net>
Date: Wed, 01 Mar 2000 00:28:52 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-68699-2000.03.01-00.28.07--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Download the manual, in pdf format, from:

ftp://ftp.tapr.org/aprssig/mic-e/docs/mic-e.manual.pdf

Check the push on jumpers at JP3 to set, not only the
loading, but the output.
73,
Rick
WB9HKE

Gregory D Lapin wrote:

> I have a problem where my radio (Alinco DR-1200) is adjusted properly for
> the microphone that I am using. The packets from the Mic-E overmodulate
> and are not readable by many TNCs.
>
> When I turn the Tx Level pot down, I nearly reach the end of CCW travel
> and the digital packet is still overmodulating. If I turn it a touch
> more, the packets deviate about 1/4 of full modulation (+/- 1 kHz).
>
> The Tx level pot is not dirty or discontinuous (I measured the resistance
> as I turned it).
>
> I don't have a schematic to know how this pot regulates the Tx level.
>
> Does anyone have a known solution for this problem? If not, where can I
> get a schematic of the Mic-E to help understand what is going on?
>
> 73 Greg N9GL
>
> ____
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> Juno now offers FREE Internet Access!
> Try it today - there's no risk! For your FREE software, visit:
> http://dl.www.juno.com/get/tagj.
>
> ---
> You are currently subscribed to mic-e as: RWSTRAUSS@worldnet.att.net
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] unproto path not getting transmitted

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Sun, 19 Mar 2000 10:22:40 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-72066-2000.03.19-10.20.01--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good morning everyone. Has anyone run into a problem with a mic-e not
sending the unproto path? I am troubleshooting one that does not send the
unprotopath at all. I have changed the path to generic and specific calls.
The led on the panel indicates that the switch is being recognized. It is
like the mic-e knows I want to change the path but is not adding the path to
the transmitted data.   The message and period pots are working correctly.
I can change the settings and verify that the message is changing and the
time between posits is changing with the settings. The mic-e program does
show the changes have taken hold.

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net

940.243.0754

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Re: [aprssig] unproto path not getting transmitted

From: Bob Bruninga <bruninga@nadn.navy.mil>
Date: Sun, 19 Mar 2000 12:05:05 -0500 (EST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Message-ID: <LYR2619-72074-2000.03.19-11.04.39--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It sounds like it is in SSID mode. As you dial in paths 1-7 you shuld see
the SSID reflect the selected path number.

To get it into DIGI mode, then rotate the MESSAGE swtitch to the other
hemisphere...

bob

On Sun, 19 Mar 2000, KC5GOI wrote:

> Good morning everyone. Has anyone run into a problem with a mic-e not
> sending the unproto path? I am troubleshooting one that does not send the
> unprotopath at all. I have changed the path to generic and specific calls.
> The led on the panel indicates that the switch is being recognized. It is
> like the mic-e knows I want to change the path but is not adding the path to
> the transmitted data.   The message and period pots are working correctly.
> I can change the settings and verify that the message is changing and the
> time between posits is changing with the settings. The mic-e program does
> show the changes have taken hold.
>
> 73, Guy Story
> kc5goi@kc5goi.net
> http://www.kc5goi.net
> 940.243.0754
>
>
> ---
> You are currently subscribed to aprssig as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprssig-10461M@lists.tapr.org
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: unproto path not getting transmitted

From: George Carr <amsecllc@telebyte.com>
Date: Sun, 19 Mar 2000 09:33:12 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-72078-2000.03.19-11.32.00--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Curious. I got six Mic E's and have had that one bite me.

Suggest you painstakingly retype [reprogram] all of your Mic E settings and see
if that can get it to change its mind. Hope it helps.

George, N7GME

KC5GOI wrote:

> Good morning everyone. Has anyone run into a problem with a mic-e not
> sending the unproto path? I am troubleshooting one that does not send the

> unprotopath at all. I have changed the path to generic and specific calls.
> The led on the panel indicates that the switch is being recognized. It is
> like the mic-e knows I want to change the path but is not adding the path to
> the transmitted data.   The message and period pots are working correctly.
> I can change the settings and verify that the message is changing and the
> time between posits is changing with the settings. The mic-e program does
> show the changes have taken hold.
>
> 73, Guy Story
> kc5goi@kc5goi.net
> http://www.kc5goi.net
> 940.243.0754
>
> ---
> You are currently subscribed to mic-e as: SEMCOR@TELEBYTE.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: [aprssig] unproto path not getting transmitted

From: "KC5GOI" <kc5goi@kc5goi.net>
Date: Sun, 19 Mar 2000 13:07:10 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
"TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-72088-2000.03.19-13.04.54--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

One of these days I will remember that. I obviously did not rotate the
switch to the right spot. Thanks Bob.

73, Guy Story
kc5goi@kc5goi.net
http://www.kc5goi.net
940.243.0754
----- Original Message -----
From: "Bob Bruninga" <bruninga@nadn.navy.mil>
To: "KC5GOI" <kc5goi@kc5goi.net>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>; "TAPR MIC-E
& PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Sent: Sunday, March 19, 2000 11:05 AM
Subject: Re: [aprssig] unproto path not getting transmitted

> It sounds like it is in SSID mode. As you dial in paths 1-7 you shuld see
> the SSID reflect the selected path number.
>
> To get it into DIGI mode, then rotate the MESSAGE swtitch to the other
> hemisphere...
>
> bob
>
> On Sun, 19 Mar 2000, KC5GOI wrote:
>
> > Good morning everyone. Has anyone run into a problem with a mic-e not
> > sending the unproto path? I am troubleshooting one that does not send
the
> > unprotopath at all. I have changed the path to generic and specific
calls.
> > The led on the panel indicates that the switch is being recognized. It
is
> > like the mic-e knows I want to change the path but is not adding the
path to
> > the transmitted data.   The message and period pots are working
correctly.
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> > 73, Guy Story
> > kc5goi@kc5goi.net
> > http://www.kc5goi.net
> > 940.243.0754
> >

> >
> > ---
> > You are currently subscribed to aprssig as: bruninga@nadn.navy.mil
> > To unsubscribe send a blank email to leave-aprssig-10461M@lists.tapr.org
> >
> >
>
> APRSdos REPLY/COMMENT:
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html
> See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
> See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---
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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] KENWOOD CONTROL HEADS

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Wed, 22 Mar 2000 22:45:48 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-72996-2000.03.22-21.41.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Haven't bought a D700 yet.....
Own several 741/641/742's...which I recently discovered have unprotected 12v on
remote head cable....shorted out & heated up cpu & all three rf decks....built &
installed low current/fast blow fuses on all remote lines.....
unsure if late model Kenwoods(D700/TM-V7/...) are the same when remoted
...forwarned is forarmed....73 / DB

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

April 2000

Original source file: mic-e.0004
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0004

1. [mic-e] other AVL - world rally cars

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Thu, 06 Apr 2000 09:52:10 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-75755-2000.04.06-08.47.39--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

other AVL - world rally cars

Just completed support by voice of a SCCA "Club Rally" :
Cherokee Trails 2000. Approx. 30 cars running 70+ mph up,down & around (over?) forest service access/fire roads in the Cherokee Natl. Forest.
2001 will be SCCA "National" rally w/ 120+ entrants. Would love to study working systems for tracking. Considering Virtual Tracking System mentioned on list using 433Mhz xmtrs but open to all suggestions/ideas??? anybody willing to share on list or by direct e-mail.
TNXS DB KD4EHC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] RE: other AVL - world rally cars

From: "Darryl Smith" <darryl@radio-active.net.au>
Date: Sat, 8 Apr 2000 08:11:41 +1000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-76035-2000.04.07-17.11.05--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

G'Day

The 433 MHz units would certainly be good... This is another example of proximity tracking... It is something that I see a need for down here as well... The base stations need a bit more work than the transmitters, but not too much...

We have a canoe event, where 500 canoes do a 1-2 day course... The 433 MHz would also work for that event... especially if we can get them cheap enough... I guess we would need a PIC... But I would probably have the PIC with a serial number, and do decoding either at the base station, or at a translation station....

In other words, design a PIC for 433 MHz transmitter that only sends checksum and serial number, with aloha transmissions... Let the base station put this into the correct form...

The only problem I see is getting enough range for low beacon times, whilst not having too mant colissions..

Darryl

p.s. This works with people tracking too :-)

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

---
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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] 20/20" on Wednesday at 10pm EDST on ABC

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Wed, 12 Apr 2000 15:47:32 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "GA ARES (E-mail)" <gaares@crash.hom.net>,
"GEMA_Staff@gema.state.ga.us" <GEMA_Staff@gema.state.ga.us>,
George McCashin <gmcc@NewsChannel9.com>,
"Gregory S. Williams K4HSM" <k4hsm@icx.net>,

"Koren Gaines (E-mail)" <koren@chickmail.com>,
LARRY H LYDA WA4PJP <wa4pjp@volstate.net>,
Lou Carter KE4DGW <lcarter264@aol.com>,
"Loyd C. Headrick KF4UJT" <1839395@pagemart.net>,
Mark Phillips <phillipm@intermediatn.net>,
Martin Day <mday696581@aol.com>, Michael Robbins <mrobbins@vol.com>,
Mike Fawbush KF4JOZ <mfawbush@usit.net>,
Mike Payne N4AIL <mpayne@cdc.net>, Nathan Bain KC4ENF <kc4efn@aol.com>,
Patricia Branham <patinc@worldnet.att.net>,
Phil Verble <kf4mcd@bellsouth.net>,
"Ralph W. Fowler N4NEQ" <rwf@mindspring.com>,
Randy Wells <gary132@aol.com>,
"Rev. Jake E. Carroll KE4SDU" <Alleymedic@msn.com>,
"Richard D. Wilson N4LT" <n4lt@VOY.NET>,
Rick Wright AI4L <ai4l@vol.com>,
"ROBERT J. JORDAN KN4VY" <kn4vy@volstate.net>,
Robyn Malone <malone.robyn@noaa.gov>,
"Ronald C. Steele" <ronbarb@cdc.net>,
Ronald E Branam KT4IW <KT4IW@aol.com>,
Sandy Macey KE4AJK <ke4ajk@aol.com>, Scott Duckworth <revduck@icx.net>,
Shelia Cannon KE4GXN <ke4gxn@aol.com>, Stanley@bellsouth.net,
Steve B Lamb KF4JTE <KF4JTE@aol.com>, Steve Macey <nt4a@aol.com>,
Steve Weber <sweber@clevelandpd.com>,
Suzanne Brown KE4SWZ <SwzAnne@aol.com>,
Terry Bartholomew NQ4Y <terry@edge.net>,
Terry Bartholomew NQ4Y <nq4y@qsl.net>,
Terry Martin KF4PPT <kf4ppt@att.net>,
Thad Hammett <thadhammett@juno.com>,
Tim Davis <tdavis1tn@netscape.net>, "tnham@qth.net" <tnham@qth.net>,
Tom Delker K1KY <k1ky@bellsouth.net>,
Tom Nichols NWS <tnichols@vantek.net>,
Tommy McEntyre <mcentyr@ibm.net>, "w4loc@VOY.NET" <w4loc@VOY.NET>,
"w4ors@arrl.net" <w4ors@arrl.net>, WALLY BROWN KD4XV <kd4xv@aol.com>,
"Wendell K. Williams W4WMS" <w4wms@aol.com>, William@bellsouth.net,
J.@bellsouth.net, Wheeler@bellsouth.net, KF4HZI@bellsouth.net
Message-ID: <LYR2619-77011-2000.04.12-14.52.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

QST (TO ALL) :
>
> Please Watch "20/20" on Wednesday at 10pm EDST on ABC (channel 10 in
> Miami)
>
> The story of Willem, the 13 year old Dutch boy who was shot by Pirates
> off the coast of Honduras, while sailing around the world with his
> family.
> Ham Radio operators helped in the rescue and first aid efforts that
> were
> critical in saving the boy's life.
> We are very proud that a close friend, and well known Miami
> Cardiologist, Dr. Jim Hirschman K4TCV, was the Ham Radio Doctor
> who was on the air for more than 7 hours giving first aid advise.
> Dr. Jim flew to Dallas a few days ago to meet Willem and his family
> and was interviewed for this segment by 20/20.
>
> This is truly what Ham Radio is about.
> People helping people around the world!
>
> Please spread the word.
>
> 73 (Best Regards),
> Julio WD4JR
> - -:- -:- -:-
> WD4JR Julio Ripoll, A.I.A., N.C.A.R.B., Architect
>   Asst. Amateur Radio Coord. National Hurricane Center
>   Email: wd4jr@gate.net
>   Home Page: http://www.gate/net/~wd4jr

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Coming to a Large Hamfest in May……

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Fri, 14 Apr 2000 08:50:08 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-77442-2000.04.14-07.45.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Coming to a Large Hamfest in May......

Alinco will show DR-135 2 meter mobile
As described in "new" AES catalog:
APRS (packet ??) accessory module plugs in
serial port on radio
data jacks
CTCSS & DCS encode / decode
....it's not on web site yet.

If the "module" is OK, back the truck up honey,
cause we got a winner!

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] WHAT'S THE FREQUENCY, KENNETH ???????????- The QSO

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Mon, 24 Apr 2000 13:22:01 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "qsl-announce@qth.net" <qsl-announce@qth.net>,
        "scanner@qth.net" <scanner@qth.net>, STEVE H <Steve@NewsChannel9.com>
Message-ID: <LYR2619-79689-2000.04.24-12.21.52--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

www.frequencymovie.com

[PR:857] Frequency, a review
"Frequency" is an imaginative fantasy based on the complex
 relationship between fathers and sons.
>From a ham radio standpoint, given the movie's conceit, it could hardly
 have been better. The conceit is, of course, communicating through
 time, in this case the son in 1999 and the ham father, W2QYV I think, in 1969.
     It's hard to believe that this movie was not written by a ham, or
 perhaps the son of a ham. Here is a picture which in an oblique way will
 convey the lure of ham radio to the uninitiated. Long suffering spouses of
 hams should leave the theatre nodding and smiling.
      Any ham club which can get it together to give demonstrations of
 ham radio in action in front of theatres playing "Frequency" should get a
 lot of interaction from the crowds leaving the movie. Since a number of
 equipment manufacturers are offering prizes for the best ham demo, and since it's a
very entertaining film, any club with the ability should make arrangements ASAP for a
"movie field day." There is a terrific PR opportunity here.
     The director and writer take care at the beginning of the ham radio
 sequences to go pretty much by the book, but as the movie progresses
 they move slightly farther from real ham operating procedures as the movie
itself moves farther from day to day reality. There's a wonderful scen where little
kids "want to talk on the radio."
      Starring Dennis Quaid in perhaps his most moving performance
 ever as the firefighter ham from the 60's and relative newcomer Jim Caviezel as his son
who's not a ham but knows how to push the mic button, "Frequency" moves at just the right
pace for the audience to follow the complex happenings on screen.
      There's a serial killer sub plot which will undoubtedly annoy some real
 critics, but from my perspective it worked just great, heightening the
 tension and picking up the pace as it shifted ever back and forth between the 90's and
the 60's.
      There's no doubt that the ending is a bit saccharine, but it is a
 fantasy after all, and ends as all but the most cynical want fantasies to end.
      Baseball fans will enjoy this picture almost as much as hams because an
 important plot turn involves "predicting" the outcome of the Mets-Orioles
 World Series of '69.
      The acting is uniformly good, with Shawn Doyle really creepy as a
 demented killer and Andre Braugher very believable as a cop in both the 60's and the
90's. (Like all of us, 30 years has made him a little porky.)
      As my friend Alan Kaul, W6RCL, said as we left the preview, "It's a
 really good example of the law of unintended consequences." And if
 you don't know what that means now, you will when you see the movie. And I urge you to
see it the first weekend it's released. I hope you enjoy it as much as I did. I'm going
again. CU at the movies.

73,

Dave, W6AQ
==========
A number of clubs are planning amateur radio demos at theaters
where the movie will be playing. What about your club.
The League in cooperation with a number of
manufacturers are offering prizes for the best exhibit.
See www.arrl.com for more details.
==========
WHAT'S THE FREQUENCY, KENNETH ???????????
Local club putting together a special event station/educational/informational
one stop event @ local mall/cineplex.....HF/VHF/APRS/Packet/ATV/SSTV
A virtual "Taste of Ham Radio".....Any Ideas on a "national" QSO FREQUNCY?
Need 80/40/20/15/10 in General section of band to voice QSO with other
stations doing the same thing.....would be easier for mike shy "civilians" to
discuss movie twix & tween.....Who knows? Maybe one of those MAXIMUM
SOLAR FLUXXES might hook us up to the old man, W1AW hisself.....???!!!!

73 de
KD4EHC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

May 2000

Original source file: mic-e.0005
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0005

1. [mic-e] Pack*BASH dinner at Dayton Hamvention 2000

From: John Ackermann <jra@febo.com> (by way of Greg Jones)
Date: Thu, 4 May 2000 14:27:08 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-81725-2000.05.04-14.33.38--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dayton Activities

Attending the 2000 Dayton Hamvention? Then don't miss out on PACK*BASH!

What?
        An event for the digitally-inclined ham, featuring:
        * Buffet dinner
        * Keynote Address: "Amateur Radio and Submarine NR-1"
           by CDR Chas Richard, W4HFZ, USN
        * TAPR special interest group meetings
        * "Birds of a Feather" gatherings

When?
        Friday evening, May 19, 2000
        Doors open at 7:00 pm; dinner served at 7:30 pm
        Speaker and meetings after dinner

Where?
        NCR "Sugarcamp" Conference Center, 101 W. Schantz Ave. --
        South of downtown Dayton, just west of Main St. (Rt 48).
        Maps available on the TAPR web site (www.tapr.org) or at the
        TAPR booth.

How?
        Dinner requires advance registration and payment through TAPR.
        Tickets will be available at the TAPR booth on Friday, though
        we strongly encourage registration <before> Hamvention. The cost
        is $25.00 per person, tax and tip included.

        All amateurs are welcome to attend, enjoy the speaker, and
        particpate in the meetings, although only those purchasing a
dinner
        can eat.

        To register, contact:
        PACK*BASH
        c/o TAPR
        8987-309 E. Tanque Verde Road #337
        Tucson, AZ   85749-9399

        Phone: (940) 383-0000
        Fax: (940) 566-2544
        Internet: tapr@tapr.org

        Visa/Mastercard Accepted

Who?
        PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet
Radio,
        the national leader in digital communication -- and the Miami
        Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/html/dayton.html, or send email to
tapr@tapr.org.
You can request information via packet radio at BASH@W8APR.#DAY.OH.USA.N
OAM.

--
John Ackermann   N8UR
Dayton, Ohio, USA
jra@febo.com -- http://www.febo.com

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] ADMIN: mail to the SIG administrator

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Fri, 5 May 2000 09:35:50 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-81932-2000.05.05-09.38.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Until this I LOVE YOU virus blows over, please send email to the SIG administrator at wa1lou@tapr.org
(not to the adminstrator's work address).

Thanks for your cooperation!

Stan, WA1LOU, SIG administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] ADMIN: mail to the SIG administrator

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Fri, 05 May 2000 19:15:22 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-81993-2000.05.06-19.17.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The ILOVEYOU virus hit us hard at work and as a result, very little
email has gone in or out of my workplace. If you sent
SIG-administrator-related mail to my work email address
(stan_horzepa@adc.com) early Thursday morning or later, I likely did not
get it and likely won't get it. So, please resend it to wa1lou@tapr.org.

And, for the time being, only send SIG administrator mail to the email
address of wa1lou@tapr.org.

Thanks for your cooperation,

Stan Horzepa, WA1LOU, SIG administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Programming the pic-e?

From: Peter Bennett <pbennett@guate.net>
Date: Wed, 10 May 2000 12:33:46 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-82982-2000.05.10-13.32.42--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello list,

I just finished building my pic-e. I would like to know if I can program
it using Visual Basic and how to do that...

Thank you in advance
Peter Bennett

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] MIC-E to NMEA-Converter

From: "K.Hirschelmann" <k.hirschelmann@mainz.netsurf.de>
Date: Sat, 13 May 2000 15:02:15 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-83545-2000.05.13-08.05.31--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello,
in case somebody is interested in using MIC-E-Format-Messages (like
being send from TH-D7, PIC-E, MIC-E or Tinytrak) for evaluation with
Standard-NMEA-MAP-Programs (like e.g. FUGAWI, GPSS, WINGPS or those for
organizers), then he should try my simple "MICENMEA"-Converter.

More Info can be found here : http://www.kh-gps.de/micenmea.htm

The Kenwood TM-D700 is said to deliver a slightly different
MIC-E-Protocol. Future versions of "MICENMEA" are planned to cover also
signals being send from this type of radio.

I am looking for Beta-Testers

Klaus DJ7OO

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Mic-E & Kenwood

From: Curtis Braun <braun@netacc.net>
Date: Mon, 22 May 2000 19:27:35 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-85437-2000.05.22-18.29.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have just completed interfaceing a mic-e to my kenwood 721 (duak band fm)
radio. when the power is off on the mic-e It forces the Kenwood into
transmit. It seems to work fine when pwer is on. I would like to be able
to power the mic-e off with out powering off the radio. What am I missing?

thanks, Curtis
Curtis Braun, N2HKD
PO Box 1002, Fairport,NY 14450

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] RE: Mic-E & Kenwood

From: "Paul M" <paul@coldnfrosty.com>
Date: Mon, 22 May 2000 20:24:18 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-85440-2000.05.22-19.26.32--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You are missing a diode. There should have been an eratta sheet with your
mic-e kit.

-----Original Message-----
From: bounce-mic-e-11070@lists.tapr.org
[mailto:bounce-mic-e-11070@lists.tapr.org]On Behalf Of Curtis Braun
Sent: Monday, May 22, 2000 7:28 PM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] Mic-E & Kenwood

I have just completed interfaceing a mic-e to my kenwood 721 (duak band fm)
radio. when the power is off on the mic-e It forces the Kenwood into
transmit. It seems to work fine when pwer is on. I would like to be able
to power the mic-e off with out powering off the radio. What am I missing?

thanks, Curtis
Curtis Braun, N2HKD
PO Box 1002, Fairport,NY 14450

You are currently subscribed to mic-e as: paul@coldnfrosty.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] RE: Mic-E & Kenwood

From: Curtis Braun <braun@netacc.net>
Date: Mon, 22 May 2000 23:39:59 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-85472-2000.05.22-22.42.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks,
Unfortunately, I don't see one and I did not find any extra parts.
This is not a new kit, but has been sitting around for a while. Where
would I find this errata sheet.

At 08:24 PM 5/22/00 -0400, you wrote:
>You are missing a diode. There should have been an eratta sheet with your
>mic-e kit.
>
>-----Original Message-----
>From: bounce-mic-e-11070@lists.tapr.org
>[mailto:bounce-mic-e-11070@lists.tapr.org]On Behalf Of Curtis Braun
>Sent: Monday, May 22, 2000 7:28 PM
>To: TAPR MIC-E & PIC-E Special Interest Group
>Subject: [mic-e] Mic-E & Kenwood
>
>
>I have just completed interfaceing a mic-e to my kenwood 721 (duak band fm)
>radio. when the power is off on the mic-e It forces the Kenwood into
>transmit. It seems to work fine when pwer is on. I would like to be able
>to power the mic-e off with out powering off the radio. What am I missing?
>
>thanks, Curtis
>Curtis Braun, N2HKD
>PO Box 1002, Fairport,NY 14450
>
>---
>You are currently subscribed to mic-e as: paul@coldnfrosty.com
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
>
>---
>You are currently subscribed to mic-e as: BRAUN@NETACC.NET
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
>
Curtis Braun, N2HKD
PO Box 1002, Fairport,NY 14450

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] mic-e errata sheet for diode use with Kenwood mobiles??

From: "rRoberts" <rroberts@kscable.com>
Date: Tue, 23 May 2000 05:14:45 -0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-85530-2000.05.23-05.13.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I had problems using the mic-e with a kenwood tm-733
(similar to the tm-721) so I am also interested in finding
this mic-e errata sheet which adds a diode.
  I looked and was unable to find any errata note whatsoever
in tapr mic-e areas nor within the current mic-e pdf construction
manual. Could someone post the errata note for everyone to
see in the tapr mic-e area..

Thx
Rich, n0rul
mailto:n0rul@kscable.com

----- Original Message ----- >
> Subject: RE: Mic-E & Kenwood
> From: Curtis Braun <braun@netacc.net>
> Date: Mon, 22 May 2000 23:39:59 -0400
>
> Thanks,
> Unfortunately, I don't see one and I did not find any extra parts.
> This is not a new kit, but has been sitting around for a while. Where
> would I find this errata sheet.
>
> At 08:24 PM 5/22/00 -0400, you wrote:
> >You are missing a diode. There should have been an eratta sheet with your
> >mic-e kit.
> >

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

10. [mic-e] MicE Addenda

From: JOHN PATTERSON <bpatt@worldnet.att.net>
Date: Tue, 23 May 2000 11:44:51 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-85618-2000.05.23-13.47.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hope this helps...Jack...W9JIU
[Attachment: MicE.jpg; image/jpeg; 33,587 bytes]

11. [mic-e] Re: MicE Addenda

From: "Ernest A. Baldini" <ebaldini@earthlink.net>
Date: Sat, 27 May 2000 20:47:29 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-86897-2000.05.27-19.49.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can someone repost this fix. I can't read the graphic.   -Ernie Baldini

JOHN PATTERSON wrote:

> Hope this helps...Jack...W9JIU
>
>   --
> [Image]

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

12. [mic-e] Re: MicE Addenda

From: dpo <w6ty@arrl.net>
Date: Tue, 30 May 2000 04:53:19 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-87377-2000.05.30-06.55.50--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ernie,
I'll fax it to you. do you have a fax number?
Doug   w6ty
<w6ty@arrl.net>

At 05:47 PM 5/27/00, you wrote:
>Can someone repost this fix. I can't read the graphic.   -Ernie Baldini
>
>JOHN PATTERSON wrote:
>
> > Hope this helps...Jack...W9JIU
> >
> >   --
> > [Image]
>
>
>---
>You are currently subscribed to mic-e as: dew6ty@earthlink.net
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

13. [mic-e] Re: MicE Addenda

From: "Ernest A. Baldini" <ebaldini@earthlink.net>
Date: Tue, 30 May 2000 10:22:38 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-87395-2000.05.30-09.25.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks anyway but John sent a good one!!   -Ernie, K4RBD

dpo wrote:

> Ernie,
> I'll fax it to you. do you have a fax number?
> Doug   w6ty
> <w6ty@arrl.net>
>
> At 05:47 PM 5/27/00, you wrote:
> >Can someone repost this fix. I can't read the graphic.   -Ernie Baldini
> >
> >JOHN PATTERSON wrote:
> >
> > > Hope this helps...Jack...W9JIU
> > >
> > >   --
> > > [Image]
> >
> >
> >---
> >You are currently subscribed to mic-e as: dew6ty@earthlink.net
> >To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>
> ---
> You are currently subscribed to mic-e as: ebaldini@earthlink.net
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

June 2000

Original source file: mic-e.0006
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0006

1. [mic-e] PTT/RCV Led

From: Keith A Farley <wa8zwj@juno.com>
Date: Thu, 8 Jun 2000 17:08:53 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-89613-2000.06.08-16.14.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am just in the process of testing my Mic-E for the first time. Even
with no radio connections to the Mic-E (no microphone to the front/no
microphone connection on the back and nothing inserted in the RCV Audio
jack in the back) it shows steady green indicating that it is detecting
audio from the radio. This is the same case when the radio is plugged
in... and turned off or on.

Also, it doesn't seem to make any difference which direction the Auto/Man
switch is in either (according to the manual, if the switch is in the
manual position it will light all the time). I checked the continuity of
the switch and it appears to be functioning normally. By the way, any
idea which continuity is auto and which is manual?

Any ideas? Many thanks!

Keith, WA8ZWJ

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

2. [mic-e] PTT/RCV Led

From: Keith A Farley <wa8zwj@juno.com>
Date: Thu, 8 Jun 2000 17:27:00 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-89617-2000.06.08-16.31.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Never mind....after adjusting the RCV sensitivity control on the back I
was able to make it function normally. It must have been adjusted too
high.

Thanks anyway!

Keith, WA8ZWJ

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

3. [mic-e] Need Help

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Sun, 11 Jun 2000 12:13:43 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-90222-2000.06.11-14.17.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a Mic-E unit that I programmed about 18 months ago. I had problems
at that time with it retaining memory for the Beacon Text. No one could
explain that one, so, I just forgot about it since it worked otherwise, I
just can not control the BT. I can live with that problem.

Last night I attempted to reprogram my Mic-E unit but am not able to
communicate with the unit. I get the Comm Link Failure message. I have
tried RESET and DISP but it just does not respond.

I am using the same cable I used previously for programming this unit and
even continuity checked it to make sure it did not get damaged. The only
other thing that is different is that I am using a different laptop than I
did previously. By the way I am using a cable from the DB9 on the computer
to a stereo plug plugged into the GPS/PGM port.

Anyone have any ideas as to what I am missing besides my memory? Hopefully
someone can refresh my memory.

Thanks,

Herb, KB7UVC
NW APRS Group, West Sound Coordinator
www.nwaprs.org <http://www.nwaprs.org>
My Home Page: http://www.hctc.com/~gerhardt/

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

4. [mic-e] Re: Herb Gerhardt's call for help

From: "Branin A. Boyd" <n3sam@popmail.voicenet.com>
Date: Mon, 12 Jun 2000 08:40:45 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-90398-2000.06.12-07.43.37--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Herb,

You have run up against a poor design decision in the mic-e. In the name of
economy the design robs power from the computer signal lines to run the mic-e.

IF the comuter complies with the RS-232C specs there is adequate power
available. Unfortunately, many do not; especially the laptops.

With inadequate power available, the mic-e programming will not be correct.
This might even be the source of your earlier programming problems.

The solution would be to find a computer which is able to do the job.

Good luck.

Branin Boyd N3SAM

At 12:00 AM 6/12/2000 -0500, you wrote:
>
>1. Need Help
>
>--
>
>Subject: Need Help
>From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
>Date: Sun, 11 Jun 2000 12:13:43 -0700
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

5. [mic-e] Re: Herb Gerhardt's call for help

From: Steve Dimse <k4hg@tapr.org>
Date: Mon, 12 Jun 2000 09:06:46 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-90408-2000.06.12-08.10.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On 6/12/00 8:40 AM Branin A. Boyd (n3sam@popmail.voicenet.com) wrote:

>You have run up against a poor design decision in the mic-e. In the name of
>economy the design robs power from the computer signal lines to run the
>mic-e.
>
>IF the comuter complies with the RS-232C specs there is adequate power
>available. Unfortunately, many do not; especially the laptops.
>
>With inadequate power available, the mic-e programming will not be correct.
>This might even be the source of your earlier programming problems.
>
>The solution would be to find a computer which is able to do the job.
>
Huh? Been a while, but I'm pretty sure the Mic-E does not power anything
from the RS-232 line. It requires external power at all times.

Perhaps you are thinking of the Pic-E, which programs from the RS-232. I
would argue that this was not a "poor design decision", alternatives
would have increased the cost of the unit, and the vast majority of users

have no problems. Those that do are generally using laptops, and have
desktops available.

To try to answer Herb's question, if you have an internal GPS, place an
unconnected plug into the 3.5 mm phone jack, which will disconnect the
internal GPS.

Steve K4HG

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

6. [mic-e] Re: Herb Gerhardt's call for help

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Mon, 12 Jun 2000 10:28:44 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-90499-2000.06.12-12.32.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for the two replies. Here are more clarifying facts.

I am not using an internal GPS. I connect my Garmin III+ units via the Ext
GPS/PGM jack.

I am connecting my computer via this same Ext GPS/PGM jack. I made this
cable per the instructions on page 10 of the May 1997 manual. Pin 3 goes to
the ring; Pin 2 goes to the tip; Pin 5 goes to the ground shank. I
previously used this cable and was able to communicate with the Mic-E unit
but with a different laptop.

I have tried using my old 486DX33 console computer instead of the laptop and
had the same problem.

I am using a 12 VDC digital power supply to power the Mic-E via the power
jack. This is the same power supply that powers my APRS station (TNC and
Alinco DR-140 radio).

Any one have any other ideas? I am sure, I am not the only one who has run
into this problem.

Thanks,

Herb, KB7UVC
NW APRS Group, West Sound Coordinator
www.nwaprs.org <http://www.nwaprs.org>
My Home Page: http://www.hctc.com/~gerhardt/

> -----Original Message-----
> From: bounce-mic-e-3832@lists.tapr.org
> [mailto:bounce-mic-e-3832@lists.tapr.org]On Behalf Of Steve Dimse
> Sent: Monday, June 12, 2000 6:07 AM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] Re: Herb Gerhardt's call for help
>
>
> On 6/12/00 8:40 AM Branin A. Boyd (n3sam@popmail.voicenet.com) wrote:
>
> >You have run up against a poor design decision in the mic-e. In
> the name of
> >economy the design robs power from the computer signal lines to run the
> >mic-e.
> >
> >IF the comuter complies with the RS-232C specs there is adequate power
> >available. Unfortunately, many do not; especially the laptops.
> >
> >With inadequate power available, the mic-e programming will not
> be correct.
> >This might even be the source of your earlier programming problems.
> >
> >The solution would be to find a computer which is able to do the job.
> >
> Huh? Been a while, but I'm pretty sure the Mic-E does not power anything
> from the RS-232 line. It requires external power at all times.
>
> Perhaps you are thinking of the Pic-E, which programs from the RS-232. I
> would argue that this was not a "poor design decision", alternatives
> would have increased the cost of the unit, and the vast majority of users

> have no problems. Those that do are generally using laptops, and have
> desktops available.
>
> To try to answer Herb's question, if you have an internal GPS, place an
> unconnected plug into the 3.5 mm phone jack, which will disconnect the
> internal GPS.
>
> Steve K4HG
>
> ---
> You are currently subscribed to mic-e as: GERHARDT@HCTC.COM
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

7. [mic-e] Re: Herb Gerhardt's call for help

From: "Warren A Merkel" <austin@magicnet.net>
Date: Mon, 12 Jun 2000 14:21:26 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-90514-2000.06.12-13.24.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> Any one have any other ideas? I am sure, I am not the only one who
> has run into this problem.

Herb

I had a similar problem last year. Check the pcb for "overheated"
components. I don't have the diagram handy here at the office so I
can't reference it however I could see that one of the zener diodes
(5.1 volt) in my unit had turned into a molten glob and was visually
identifyable as bad.

Other simple things to check: Are the jumpers in the correct
positions for your current setup? Check continuity or view the
waveforms of the "programming data path" from the mini jack, thru
the MAX232 level converter, on to the PIC microprocessor. You
should see 0 to +5 volt swings on the uP side of the MAX232. Try
changing the MAX232 chip if you have a spare.

Warren A. Merkel
kd4zdd@amsat.org
Orlando, FL

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

8. [mic-e] The French Resistance - or just being pissy

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Sat, 17 Jun 2000 14:20:20 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-91430-2000.06.17-13.18.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

most every major tech firm around going full bore to make bluetooth a
worldwide standard (very rare occurance) and they gotta have a
conference to work out "the French problem". now they are picking on
APRS? vie va la diference works both ways!!!!!!!
--

"A man with a gun goes into an elevator. Inside, he meets Adolf
  Hitler, a shark, and a lawyer. However, the man has only two
  bullets, so he shoots the lawyer twice." -- Buddy Hackett

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org

To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

9. [mic-e] Schematic for MIC-E

From: "James A. Martin Jr." <tapr@jmartin.net>
Date: Tue, 27 Jun 2000 11:37:16 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-93377-2000.06.27-11.41.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Where can I find a schematic for the MIC-E??

Thanks,
James M.
KD5HAD

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

July 2000

Original source file: mic-e.0007
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0007

1. [mic-e] 19th Annual ARRL and TAPR Digital Communications Conference

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Tue, 18 Jul 2000 21:20:43 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-97264-2000.07.18-20.26.19--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Press Release: July 6th, 2000

19th Annual ARRL and TAPR Digital Communications Conference

2000 ARRL and TAPR Digital Communications Conference
September 22-24, 2000
Orlando, Florida

It is that time again! Time to start making your travel plans and thinking about what to publish for the upcoming 19th Annual ARRL and TAPR Digital Communications Conference.

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital expert, but for digitally-oriented amateurs of all levels of experience.

The 2000 ARRL and TAPR Digital Communications Conference will be held September 22-24, 2000 in Orlando, Florida. This year's conference location is just minutes away from the Orlando International Airport (MCO).

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. This includes networkers, sysops, software writers, modem designers, and digital satellite communications enthusiasts. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to get active on a national level. Now, more than ever, amateur radio needs this great meeting of the minds, since it is important that we demonstrate a continued need for the frequency allocations we now have by pushing forward and documenting our achievements. The ARRL and TAPR Digital Communications Conference is one of the few ways to record our accomplishments and challenge each other to do more.

Area Attractions

The Orlando Florida area is famous for its attractions and vacation spots. Disney World, Universal Studios, and Sea World (just to name a few) are within 15 minutes of the hotel. Shuttle service from the hotel will be available for a small fee. Cape Canaveral and Cocoa Beach are a 30 minute drive East of the hotel.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Info

From: "Robert Hobbs" <n5ula@home.com>
Date: Wed, 26 Jul 2000 15:43:26
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-98645-2000.07.26-15.48.39--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know of any websites with more info on the Mic-encoder.

Thanks
Robert

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3. [mic-e] Re: Info

From: Robert Winingham <kc5ejk@onramp.net>
Date: Wed, 26 Jul 2000 17:03:39 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-98675-2000.07.26-17.05.43--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Does anyone know of any websites with more info on the Mic-encoder.

this WHOLE list is archived at tapr.org - I can't see how there could be MORE
than that :-)

----- kc5ejk@onramp.net or kc5ejk@amsat.org -----

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

August 2000

Original source file: mic-e.0008
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0008

1. [mic-e] on the road again.....,.,,.

From: Dewey Bryant KD4EHC <kd4ehc@bellsouth.net>
Date: Sun, 27 Aug 2000 01:57:12 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: DEWEY BRYANT KD4EHC <kd4ehc@bellsouth.net>,
Jonathan Guy KE4AIK <ke4aik@bellsouth.net>,
Mad Max <n4nwd@bellsouth.net>, Mike Fawbush KF4JOZ <mfawbush@usit.net>,
Allison McAfee <amcafee@diabetes.org>,
"Phillip T. Verble KF4MCD" <kf4mcd@bellsouth.net>,
Rick Willis <rwillis@diabetes.org>,
CHRIS PALMGREN W4ORS <w4ors@bellsouth.net>,
DEWEY BRYANT KD4EHC <kd4ehc@bellsouth.net>,
Jim Myers KG4AQW <shooter2@Vol.com>,
Jonathan Guy KE4AIK <ke4aik@bellsouth.net>,
Mad Max <n4nwd@bellsouth.net>, Matthew Sadler KF4LHP <mws@kf4lhp.net>,
John Pless KG4POD - TV9 <dasbroom@bellsouth.net>,
TV 12 - WDEF Newsroom <news@wdef.com>,
TV 3 - WRCB Newsroom <news@wrcbtv.com>,
TV 61 - FOXNEWS <news@fox61tv.com>
Message-ID: <LYR2619-105339-2000.08.27-00.57.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

ms 150 bike ride
sat sept 9 - chattanooga to sweetwater
sun sept 10 - sweetwater to chattanooga

APRS experience & participation continues to grow.
it's not hamradio, it's funradio!!!!!!!!

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] RE: on the road again.....,.,,.

From: "David Dobbins" <ddobbins@localaccess.com>
Date: Sun, 27 Aug 2000 06:50:00 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-105372-2000.08.27-09.03.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The NWAPRS folks banded together for the third year in July to support the
Puget Sound (Seattle WA) MS-150. Somewhere along the line we learned this
would be the last year the event would take place in Puget Sound, as other
fund raising opportunities would be explored due to a decreasing ridership.
This year's event went very well, along a new and more expanded course, and
APRS/ham radio support was very instrumental in a successful race. I'm
curious if anybody has heard from other MS-150 groups if they are abandoning
their annual bike challenge? Dave/K7GPS, NWAPRS Coordinator

-----Original Message-----
From: bounce-mic-e-3917@lists.tapr.org
[mailto:bounce-mic-e-3917@lists.tapr.org]On Behalf Of Dewey Bryant
KD4EHC
Sent: Saturday, August 26, 2000 10:57 PM
To: TAPR MIC-E & PIC-E Special Interest Group
Cc: DEWEY BRYANT KD4EHC; Jonathan Guy KE4AIK; Mad Max; Mike Fawbush
KF4JOZ; Allison McAfee; Phillip T. Verble KF4MCD; Rick Willis; CHRIS
PALMGREN W4ORS; DEWEY BRYANT KD4EHC; Jim Myers KG4AQW; Jonathan Guy
KE4AIK; Mad Max; Matthew Sadler KF4LHP; John Pless KG4POD - TV9; TV 12 -
WDEF Newsroom; TV 3 - WRCB Newsroom; TV 61 - FOXNEWS
Subject: [mic-e] on the road again.....,.,,.

ms 150 bike ride
sat sept 9 - chattanooga to sweetwater
sun sept 10 - sweetwater to chattanooga

APRS experience & participation continues to grow.
it's not hamradio, it's funradio!!!!!!!!

You are currently subscribed to mic-e as: DDOBBINS@LOCALACCESS.COM
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] ANNOUNCEMENT: ARRL/TAPR 19th Annual DCC Sep. 22-24

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Mon, 28 Aug 2000 22:12:58 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-105757-2000.08.28-21.21.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Notice:
September 1, 2000 is the last day to receive the special hotel room rate of
$89/night single or double and the pre-registration price for the
conference.

ARRL and TAPR 19th Annual
Digital Communications Conference
September 22-24, 2000 - Orlando, Florida

For more information see: http://www.tapr.org/dcc

Information
Mark your calendar and start making plans to attend the year's premier event
in digital communications. The 19th Annual ARRL and TAPR Digital
Communications Conference will be held September 22-24, 2000, in Orlando,
Florida - just minutes from the Orlando International
Airport.

The ARRL and TAPR Digital Communications Conference is an international
forum for radio amateurs in digital communications, networking, and related
technologies to meet, publish their work, and present new ideas and
techniques for discussion. Presenters and attendees will have the
opportunity to exchange ideas and learn about recent hardware and software
advances, theories, experimental results, and practical applications. The
Digital Communications Conference is not just for the digital expert, but
also for digitally oriented amateurs of all levels of experience.

A Conference for the Beginner as well
The conference is not just for the digital expert. As in years past an
entire session strand with beginning, intermediate, and advanced
presentations on selected topics in digital communications will be offered.
Some of the topics will include: APRS, Satellite Communications, TCP/IP,
Digital Radio, Spread Spectrum and other introductory topics. Come to the
conference and hear these topics presented by the experts!

Area Attractions
The Orlando Florida area is famous for its attractions and vacation spots.
Disney World, Universal Studios, and Sea World (just to name a few) are
within 15 minutes of the hotel. Shuttle service from the hotel will be
available for a small fee. Cape Canaveral and Cocoa Beach are a 30 minute
drive East of the hotel.

Symposia, Seminars and Banquet
Two symposia/seminars will be held which allow those with additional time
and interest to make the most of the Conference. For those who may have
interest in just one symposium or seminar, registration for the conference
is not required to attend these activities. This allows maximum flexibility
for those who may want to participate during the Digital Communications
Conference, but do not have an entire weekend to devote to the event.

The Fourth APRS National Symposium will be held on Friday and will be
moderated by Steve Dimse, K4HG (the developer of javAPRS). It will likely
include many APRS software authors, such as Bob Bruninga, WB4APR (the father
ofAPRS), Keith Sproul, WU2Z, Mark Sproul, KB2ICI (the developers of MacAPRS
and WinAPRS), Brent Hildebrand, KH2Z (the developer of APRSPLUS), Mike
Musick, N0QBF (developer of PocketAPRS), and other nationally known APRS
leaders. Join this group for the afternoon and evening for in-depth
discussions and presentations on the current and future status of APRS. This

is a unique opportunity to gain insight into this fast-growing digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning System).

On Saturday night the DCC Banquet will be held. A guest speaker will speak after the banquet and a prize drawing will top the evening. The Grand Prize is a Palm VII Personal Digital Assistant and Synergy Systems LLC has donated two M12 development kits and many more.

The Sunday morning seminar will be focused on PIC development, design, and programming. This five-and-a-half hour seminar will focus on the things you need to know now in order to understand and begin to participate in PIC development.

Co-Hosts
The 2000 ARRL and TAPR Digital Communications Conference local co-hosts will be:
Lake Monroe Amateur Radio Society
(http://www.qsl.net/lmars/),
Orange County ARES/RACES
(http://evcom.net/~jvoisin/ares.htm),
Seminole County ARES/RACES
(http://wwww.geocities.com/capecanaveral/launchpad/4773),
and Orlando Amateur Radio Club
(http://www.oarc.org/).

International Co-Hosts PRUG (Packet Radio User Group of Japan) will be the International co-host for a third year running. PRUG will be hosting an informal social Friday evening before their seminar and symposium is held. Visit http://www.prug.or.jp for more information about PRUG.

Hotel
Conference presentations, meetings, and seminars will be held at the Orlando Airport Marriott. It is highly recommended that you book your room prior to arriving. A special DCC room rate of $89/single and $89/double per night has been blocked for 50 rooms and is available until September 1st, 2000. Once the 50 rooms have been reserved, room rates will increase. So be sure to book your rooms early! The hotel provides transportation to and from the Orlando International Airport. Please contact the hotel to arrange specific transportation needs.

Orlando Airport Marriott (conference hotel)
7499 Augusta Drive
Orlando, FL 32822
Phone 407-851-9000, Fax 407-857-6211
(http://marriotthotels.com/MCOAP/)

What you can expect at DCC 2000
- A full day of papers and breakouts for the beginner to the advanced
- Two seminars/symposiums
- The fifth annual Student Paper session.
- A banquet with Special Guest Speaker.
- Informal get-togethers throughout the weekend.
- TAPR Membership Meeting
- An event at which the most important new developments in amateur digital communications are announced.
- Digital 'movers and shakers' from all over the world in attendance.

There are few activities where your participation can be so much fun and important! What a great way to share and renew your enthusiasm for digital amateur radio! A get-together with colleagues and bringing each other up to date on your latest work -- all this, and more, for an unforgettable weekend of amateur radio and digital communications. We hope to see you at the ARRL and TAPR Digital Communications Conference on September 22-24, 2000!

Full information on the conference and hotel information can be obtained by contacting:

Tucson Amateur Packet Radio
Phone: (940) 383-0000.
Fax: (940) 566-2544
Email: tapr@tapr.org
Web: http://www.tapr.org

Registration Form
Contact the TAPR office by Phone 940-383-0000, Fax 940-566-2544, or Internet: http://www.tapr.org and tapr@tapr.org to register or for additional information.

Conference Registration includes: Conference Proceedings, Sessions,
Meetings, and Lunch on Saturday.

- Pre-Registration (before Sept 1st)

$45.00 _____

- Registration (after Sept 1) or at door

$55.00 _____

- Saturday Evening Dinner (Limited Space)
Dinner with Guest Speaker
Prize Drawing

$30.00 _____

Symposia/Seminars

- 4th Annual APRS National Symposium
Friday, 1pm - 7pm. $25.00 _____

- Sunday Seminar
PIC Design, Development, and Programming

Sunday, 8:30 am - 2 pm. $20.00 _____

TOTAL _____

Name/Call:

Street Address:

City/State/Zip:

Country:

Phone Number:

Email:

Charge my credit card (circle one):

VISA MasterCard

Acct:

Expiration Date:

Signature on card:

Mail completed registration form with check to:
TAPR
8987-309 E Tanque Verde Rd #3378
Tucson, AZ 85749-9399

Or check http://www.tapr.org/dcc for an on-line registration form.

A registration packet will be mailed in September upon receipt of
registration form and payment.

You are currently subscribed to dsp as: SRBIBLE@GATE.NET
To unsubscribe send a blank email to leave-dsp-3222B@lists.tapr.org

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You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

September 2000

Original source file: mic-e.0009
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0009

1. [mic-e] ADMIN: Monthly Announcement

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Wed, 6 Sep 2000 08:53:36 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-107905-2000.09.06-09.04.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

POSTING MESSAGES

To post messages to the MIC-E SIG, send email to mic-e@tapr.org

MIC-E SIG RULES

The MIC-E SIG has a few simple rules:

. Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like "what kind of automobile should I buy to install my MIC-E?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.

. Be succinct when composing a message. (The MIC-E SIG software has been optioned to limit the length of each message.)

. When quoting a previous message, only quote the parts of that message you are referencing. (The MIC-E SIG software has been optioned to limit the length of a quote.)

. Do not send messages in HTML format.

. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] DCC Update

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Mon, 11 Sep 2000 20:01:11 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-108815-2000.09.11-19.09.41--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

19th Annual ARRL/TAPR Digital Communications Conference
Orlando, FL September 22-24, 2000

** Update 9/11/2000 **

A little more that one week away, the 19th Annual ARRL/TAPR Digital Communications Conference is about to begin. For detailed information about the conference, please visit the official DCC web page at http:www.tapr.org/dcc.

Registration for the conference will be taken at the door. Friday registration is for an entire afternoon APRS activities, demonstrations, and presentations. Saturday registration includes conference proceedings, lunch, and a full day of presentations. Saturday night includes Banquet, dinner speaker, and prize drawing. Sunday registration is for the PICmicro Design seminar.

Banquet Prize Drawings:
Grand Prize Kenwood TM-D700A (donated by Kenwood)
2nd Grand Prize Palm VII Personal Digital Assistant
Two Motorola Oncore M12 GPS Evaluation Kits (donated by Synergy Systems, LLC)

Map and coordinates:
A map of the conference hotel and coordinates are available at ftp://ftp.tapr.org/dcc/dcc.hotel.map.pdf

Speakers:
The following is a list of presenters. Preliminary schedule is available from ftp://ftp.tapr.org/dcc/2000.dcc.schedule.pdf

APRS Seminar - Friday September 22, 2000

John Ackerman, N9UR	APRS WG
Steve Bible, N7HPR	T-238 Weather Station
John Blowsky, KB2SCS	APRS LOOKUP
Steve Bragg, KA9MVA	HamHud
Bob Bruninga, WB4APR	APRSdos, satellite, etc.
Steve Dimse, K4HG	Internet APRS
Walter Dunckel, KD6VYV	Serial Control of D7/D700
John Hansen, W2FS	KISS TNC, D700 Keyboard
Dale Huguley, KG5QD	Weather Server
Larry Gahagan, AB0JM	Wildfire Support
Byon Garranrant, N6BG	TinyTrack
Mike Musick, N0QBF	PalmAPRS/Tracker construction
Robert Osband, N4SCY	Public Service with APRS
Tom Schaefer, NY4I	APRS Email Gateway
Darryl Smith, VK2TDS	APRS in the 2000 Olympics
The Sprouls, WU2Z/KB2ICI	Mac/Win/XAPRS
Rob Wittner, KZ5RW	APRS-CE

Main Session, Paper Presentation - Saturday 23, 2000
Titles and abstracts are available at http://www.tapr.org/tapr/html/Fcnc19.html

EasyTrak, A PIC Based Rotor/Radio Controller Interface
By Steve Bible N7HPR

APRS Tiny Web Pages
By Bob Bruninga WB4APR

Channel Capacity Simulation of Peer-to-Peer Spread Spectrum Satellite Transponders
By Matthew Ettus N2MJI

Correlation for Direct Sequence Spread Spectrum
By Panagiotis Gavalas

PIC-et Radio II: How to Receive AX.25 UI Frames Using Inexpensive PIC Microcontrollers
By John A. Hansen W2FS

Winlink 2000 ...A Global Ham Message Transfer and Deliver Network
By Hans Kessler N8PGR, Vic Poor W5SMM, Rick Muething KN6KZB, and Steve
Waterman K4CJX

Frequency Offset Acquisition and Tracking Algorithms, Part 1 and Part 2
By Mohamed K. Nezami

External Common Gateway Interface (CGI) Access to FindU
By Thomas M. Schaefer NY4I

Server Applications within APRS Internet Server Environment
By Thomas M. Schaefer NY4I

APRS and the TAPR EasyTrak Az/El Rotor Control System
By Keith Sproul WU2Z

APRS and Kenwood TM-D700 Voice Messaging
By Keith Sproul WU2Z and Mark Sproul KB2ICI

Internet Wide Callsign Database using LDAP
By Mark Sproul KB2ICI

Automatic Voice Relay System
By Bob Bruninga WB4APR

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] Final Update - DCC Orlando, FL Sep 22-24, 2000

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Mon, 18 Sep 2000 12:13:50 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-109974-2000.09.18-12.25.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

From: Steven R. Bible [mailto:srbible@gate.net]
Sent: Monday, September 18, 2000 12:34 PM
To: picsig@lists.tapr.org; tacgps@lists.tapr.org; wxsig@lists.tapr.org;
hfsig@lists.tapr.org; dsp@lists.tapr.org; ss@lists.tapr.org
Subject: Final Update - DCC Orlando, FL Sep 22-24, 2000

19th Annual ARRL/TAPR Digital Communications Conference
Orlando, FL - September 22-24, 2000

** Final Update 9/18/2000 **

Counting down the final days until the 19th Annual ARRL/TAPR Digital
Communications Conference this weekend in Orlando, Florida. For detailed
information about the conference, please visit the official DCC web page at
http:www.tapr.org/dcc.

Registration for the conference will be taken at the door. Friday
registration is for an entire afternoon APRS activities, demonstrations, and

presentations. Saturday registration includes conference proceedings,
lunch, and a full day of presentations. Saturday night includes Banquet,
dinner speaker, and prize drawing. Sunday registration is for the PICmicro
Design seminar.

DCC Social:
Please join us Friday evening at 7:00 PM for a social get together time.
The social is generously hosted by the Packet Radio Users Group of Japan
(PRUG).

PRUG Presentation:
Friday night the Packet Radio Users Group of Japan will present talks on
their progress on high-speed digital networks in Japan.

Saturday Night Banquet Speaker:
Mr. Doug Campbell, of Triton Network Systems (http://www.triton-network.com)

will be our DCC Banquet Speaker. Triton Network Systems is located in
Orlando, Florida.

Vice President Product Management, Marketing, & International Business as
Vice President of International Sales, Marketing and Product Management, Mr.

Campbell leads the assessment of global community needs and spearheads the
development of Triton Network Systems' product and marketing strategies.

Mr. Campbell cultivated his management skills in sales, marketing and
product development working 17 years for Nortel Networks. While based in
Singapore, he built a multifunctional pan-Asian team, which successfully
captured a 100% market share with MCI-WorldCom Asia, successfully
introducing a number of new products. Prior to this, Mr. Campbell was
instrumental in the establishment of an SDH broadband equipment joint
venture in China and served as a member of the company's Board of Directors.

Mr. Campbell received a Bachelor of Engineering Physics degree from the
Royal Military College of Canada in Kingston, Canada, and a Master of
Business Administration from IMD (University of Lausanne) in Switzerland.

Banquet Prize Drawings:
Grand Prize - Kenwood TM-D700A (donated by Kenwood)
2nd Grand Prize - Palm VII Personal Digital Assistant (donated by TAPR)
Two Motorola Oncore M12 GPS Evaluation Kits (donated by Synergy Systems,
LLC)
Microchip PICSTART-PLUS PICmicro Programmer (donated by Microchip)

PIC Seminar Prize Drawing
Microchip MPLAB-ICD (donated by Microchip)

Project and Demonstration Room:
The DCC is a place where people can talk about their projects and gain ideas

for new ones. The Project and Demonstration Room has become a recent DCC
tradition where people can bring and display their projects. The room will
be located next to the registration room and across the hall from the main
presentation room. The Project and Demonstration Room will open at
registration time and be closed (locked) 11:00 PM Friday and Saturday night.

Map and coordinates:
A map of the conference hotel and coordinates are available at
ftp://ftp.tapr.org/dcc/2000.dcc.hotel.map.pdf

Speakers:
The following is a list of presenters. PDF version available from
ftp://ftp.tapr.org/dcc/2000.dcc.speakers.pdf

Speaking schedule (subject to change) is available from
ftp://ftp.tapr.org/dcc/2000.dcc.schedule.pdf

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Steve Bible, N7HPR	T-238 Weather Station
John Blowsky, KB2SCS	APRS LOOKUP
Bob Bruninga, WB4APR	APRSdos, satellite, etc.
Steve Dimse, K4HG	Internet APRS
Walter Dunckel, KD6VYV	Serial Control of D7/D700
John Hansen, W2FS	KISS TNC, D700 Keyboard
Dale Huguley, KG5QD	Weather Server
Larry Gahagan, AB0JM	Wildfire Support
Byon Garranrant, N6BG	TinyTrack
Mike Musick, N0QBF	PalmAPRS/Tracker construction
Robert Osband, N4SCY	Public Service with APRS
Tom Schaefer, NY4I	APRS Email Gateway
Darryl Smith, VK2TDS	APRS in the 2000 Olympics
The Sprouls, WU2Z/KB2ICI	Mac/Win/XAPRS
Rob Wittner, KZ5RW	APRS-CE

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Correlation for Direct Sequence Spread Spectrum
By Panagiotis Gavalas

PIC-et Radio II: How to Receive AX.25 UI Frames Using Inexpensive PIC Microcontrollers
By John A. Hansen W2FS

Winlink 2000 ...A Global Ham Message Transfer and Deliver Network
By Hans Kessler N8PGR, Vic Poor W5SMM, Rick Muething KN6KZB, and Steve Waterman K4CJX

Frequency Offset Acquisition and Tracking Algorithms, Part 1 and Part 2
By Mohamed K. Nezami

APRS and the TAPR EasyTrak Az/El Rotor Control System
By Keith Sproul WU2Z

APRS and Kenwood TM-D700 Voice Messaging
By Keith Sproul WU2Z and Mark Sproul KB2ICI

Internet Wide Callsign Database using LDAP
By Mark Sproul KB2ICI

Automatic Voice Relay System
By Bob Bruninga WB4APR

Introductory Sessions - Saturday 23, 2000

Intro to Packet Radio
By John Ackerman, N8UR

Intro to APRS
By Guy Story, KC5QOI

Intro to Digital Satellites
By Barry Baines, WD4ASW

Into to HF Digital
TBD

Intro to Software Defined Radios
By Steve Bible, N7HPR

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October 2000

Original source file: mic-e.0010
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0010

1. [mic-e] Kenwood V7A

From: "Keith Farley" <wa8zwj@hotmail.com>
Date: Sun, 01 Oct 2000 16:35:12 GMT
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112165-2000.10.01-11.44.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am having difficulty setting up the Mic-E to interface with the Kenwood V7A. I have been told that there has been discussion about the fix, but, was unable to locate it. The radio will not transmit using the mic (whether the mic-e is on or off). The unit appears to transmit once in the auto mode when the mic-e is first powered up, but even though the mic-e attempts to trasnsmit after that, the rig no longer keys. Can someone please give me the info or point me in the right direction? Thanks! Keith, WA8ZWJ

_____
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2. [mic-e] direccion no valida

From: bruno@lacasadelcdvirgen.com.ar
Date: Sun, 1 Oct 2000 12:38:15 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112168-2000.10.01-11.46.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Not a valid addres
direccion no valida

si quiere comunicarse con bruno balestieri
por favor utilice la siguiente direccion
Bruno1@lacasadelcdvirgen.com.ar

Muchas gracias

if you need to get in contact with bruno balestieri please use
bruno1@lacasadelcdvirgen.com.ar

thanks

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] RE: Kenwood V7A

From: "Paul M" <paul@coldnfrosty.com>
Date: Sun, 1 Oct 2000 21:53:13 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112290-2000.10.01-21.01.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone have any information about connecting the mic-e to a Yaesu FT-90R? Thanks.

73, Paul K1ABC

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] ADMIN: Monthly Message

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Sun, 01 Oct 2000 22:54:22 +0000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112305-2000.10.01-22.05.04--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

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. Do not send attachments.

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QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

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5. [mic-e] RE: Kenwood V7A

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Mon, 2 Oct 2000 08:47:17 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112388-2000.10.02-09.00.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a Yaesu FT 100 and gave up on it... I put out request to this list
and to Yaesu, all with no responses. I ended up buying the Kenwood 2 meter
rig and it has worked well ever since. I used the Kenwood bracket set to
mount the MIC-e to the radio and it makes a very neat portable package that
moves from vehicle to vehicle very quickly...

Joe Dorn, W5VEX, Belton, Texas

-----Original Message-----
From: bounce-mic-e-9285@lists.tapr.org
[mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of Paul M
Sent: Sunday, October 01, 2000 8:53 PM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] RE: Kenwood V7A

Does anyone have any information about connecting the mic-e to a Yaesu
FT-90R? Thanks.

73, Paul K1ABC

You are currently subscribed to mic-e as: joedorn@stonemedia.com
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---
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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] Yaesu FT-90

From: "MacDonald, Paul (OGO)" <P.Macdonald@compaq.com>
Date: Wed, 4 Oct 2000 11:13:05 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112814-2000.10.04-10.22.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Has anyone successfully interfaced a mic-e with a Yaesu FT-90? Thanks.

73, Paul K1ABC

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
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7. [mic-e] direccion no valida

From: bruno@lacasadelcdvirgen.com.ar
Date: Wed, 4 Oct 2000 11:18:42 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-112816-2000.10.04-10.27.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Not a valid addres
direccion no valida

si quiere comunicarse con bruno balestieri
por favor utilice la siguiente direccion
Bruno1@lacasadelcdvirgen.com.ar

Muchas gracias

if you need to get in contact with bruno balestieri please use
bruno1@lacasadelcdvirgen.com.ar

thanks

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8. [mic-e] Mic-E and Yaesu FT-90R

From: "Paul M" <paul@coldnfrosty.com>
Date: Sun, 8 Oct 2000 10:00:17 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-113697-2000.10.08-09.09.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have connected my Mic-E to a Yaesu FT-90R using the following personality
header connections:

16 -- 5
15 -- 4
14 -- 2
13
12 -- 3
11 -- 4

I have positioned the PTT jumper on Pin 2 of JPR-JPC.

The Mic-E appears to be transmitting fine. However, when I key the Yaesu
mic, it changes the frequency to the Priority Channel rather than acting as
a PTT! Does anyone have any insight as to what might be wrong? Thanks.

73, Paul K1ABC
[Attachment: winmail.dat; application/ms-tnef; 1,624 bytes]

9. [mic-e] Re: Mic-E and Yaesu FT-90R

From: Robert G Unger <wb3dtg1@juno.com>
Date: Mon, 9 Oct 2000 11:21:37 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-113928-2000.10.09-10.31.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Paul.... I am thinking you have one of the wires for the PTT on the UP
or Down wire on the mike jack. If I am wrong< please let me konw...
This is more intricate than meets the eye.
Lets keep in touch

73, de Bob in Bethlehem, Pa.

Radio address WB3DTG@WB3DTG.#CEPA.PA.USA.NOAM

_____
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10. [mic-e] What GPS do you recommend for use with PIC-E

From: "Marius Hauki" <Marius.Hauki@datarespons.no>
Date: Tue, 10 Oct 2000 14:24:30 +0200
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-114097-2000.10.10-07.33.19--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi OMs :

I need some info. on what GPS RX you reccomend for
use with the PIC-E. I am looking for :

-low price
-good avaiability
-small formfactor. Prefferably a OEM module
 without a chassis so it can be mounted in the
 box together with the PIC-E board.
-Not too current hungry

Maybe uou can direct me towards a supplier of antennas
for portable use with :

-low price
-good avaiability
-small formfactor

I am planning to experiment with this a little over here
this winter.

73 de
Marius Hauki
LA9EEA

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11. [mic-e] Re: Mic-E and Yaesu FT-90R

From: "MacDonald, Paul (OGO)" <P.Macdonald@compaq.com>
Date: Tue, 10 Oct 2000 10:44:30 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-114119-2000.10.10-09.53.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bob,

Well, there are two lines SW1 and SW2. In the TNC hookup diagram in the manual, it shows SW1 as the PTT line. On a 6-pin RJ connector, it translates to Pin 2 of the RJ-45. So I am using that line. I have also confirmed it since Pin 2 is the jumper I am using for the PTT on the jumper block (I don't have the mic-e manual handy to reference that jumper block).

Paul

-----Original Message-----
From: Robert G Unger [mailto:wb3dtg1@juno.com]
Sent: Monday, October 09, 2000 11:22 AM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] Re: Mic-E and Yaesu FT-90R

Hi Paul.... I am thinking you have one of the wires for the PTT on the UP or Down wire on the mike jack. If I am wrong< please let me konw...
This is more intricate than meets the eye.
Lets keep in touch

73, de Bob in Bethlehem, Pa.

Radio address WB3DTG@WB3DTG.#CEPA.PA.USA.NOAM

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---
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November 2000

Original source file: mic-e.0011
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0011

1. [mic-e] Voice repeaters agian...

From: "Michael Lussier" <michael_s_lussier@hotmail.com>
Date: Tue, 07 Nov 2000 17:27:29 EST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-118604-2000.11.07-16.38.34--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I know I am new to the list.
I couldn't find much info on the use of voice repeaters and APRS in the FAQ,
But I am working on a solution for the APRS through a voice repeater. As a
repeater owner I can experiment on my own system. I will keep everyone
appriased of my progress. I have several idea working in my head. I am new
to APRS and I got the bug this means I won't stop until I get what I want (
get it right that is !!).

73

Mike K4MQF

_____
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Share information about yourself, create your own public profile at
http://profiles.msn.com.

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Re: Voice repeaters agian...

From: Robert G Unger <wb3dtg1@juno.com>
Date: Wed, 8 Nov 2000 09:55:24 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-118691-2000.11.08-09.03.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Good luck with your project. I'd be very happy to see whut you
accomplish.. I am also a Mic-e advocate. I love it, and thye work the
nutz..

73, de Bob in Bethlehem, Pa.
Radio address WB3DTG@WB3DTG.#CEPA.PA.USA.NOAM

_____
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http://dl.www.juno.com/get/tagj.

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] ADMIN: Monthly Reminder

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Fri, 10 Nov 2000 10:32:36 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-119006-2000.11.10-11.10.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

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Stan Horzepa, WA1LOU, wa1lou@tapr.org

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January 2001

Original source file: mic-e.0101
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0101

1. [mic-e] AX25 Protocol Questions

From: "Thomas M. Alldread" <tma@mail.island.net>
Date: Wed, 17 Jan 2001 09:37:27 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-129898-2001.01.17-11.50.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Greetings All:

I am studying the "reg_digi" code written for the "MIC-E" encoder hardware. I would like to complement and thank Mike, N0QBH and of course the TAPR organization for all their excellent work. Mike's work provided me with some PIC AX25 source code to study. Any questions I have here are due to my lack of understanding and are not intended in anyway to reflect poorly on Mike's excellent work!

My objective is to learn how to use a PIC as a TNC for some remote telemetering. This would involve customizing the code for my application thus I am trying to learn AX25 protocol and its implementation on a PIC. I think I have a reasonably good understanding of PIC code as I have been experimenting with them for about 5 years now but I have never gotten down to the nitty-gritty details of AX25 protocol. Also I may be getting a bit confused by the APRS implementation of AX25. Although I recently downloaded the APRS specification I have not found the time to studying it in depth yet.

I have read the AX25 version 2.0 specification a few times. It is my current understanding that ASCII style start, stop and parity bits are not utilized within a standard AX25 serial bit stream frame. Alternatively I understand AX25 frame synchronization is provided by the detection of the 0x7e start/end flag octet pair (also understood that continuous adjacent frames can share a single 0x7e flag as a frame end/start indicator).

At this point on my learning curve of the reg_digi code I have the following questions which have me puzzled:

1) During the TXDelay period while the transmitter is starting up is a steady space tone always transmitted by convention? It appears that the 'find_start_flag' subroutine will not detect a 0x7e unless the previous bit prior to the start of the 0x7e sequence was a space.

2) It appears that unless a received 0x7e sequence is followed by a 1 bit the 'find_start_flag' routine will purposely reject the detected 0x7e and start looking for a new one. However the AX25 specification (par 2.2.13.1, Fig.3A) indicates that the first bit sent of the following ADDRESS field (the LSB bit) is always a 0 (it is used to flag that there will be more address data to follow contained in the next octet). It would thus seem that all error free 0x7e frame start flag sequences would be rejected as normally the LSB 0 bit from the first octet in the address would follow. Why is a 1 bit expected after the 0x7e flag?

3) Following the detection of the 0x7e + 1 bit 9 bit sequence there is a 'long_ones' routine that looks for an additional 6 logic 1 bits followed by a logic 0 bit. Assuming LSB sent first as stated in the AX25 specification it appears the start sequence is only accepted (as indicated by the LED) if a 0x7e,0xef octet pair is received. Until now I thought all that was needed to flag the beginning of a frame is a 0x7e sequence. Also it is my understanding that bit stuffing is used so that no more than 5 adjacent logic ones ever occur. The 0xef octet would have 7 adjacent ones. I am wondering if the 0xef octet is a special flag for APRS protocol? If not I wonder what I have missed?

Many thanks in advance for any help!

73 & Enjoy!
Tom, VA7TA

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] tapr mic-e

From: garwood <garwood@bellatlantic.net>
Date: Thu, 18 Jan 2001 21:29:31 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130187-2001.01.18-20.43.21--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anyone have a spare mic-e for sale? Tapr, i am told has none left. I
need one for a helicopter project.

Thanks All,

gary woodward

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] Re: tapr mic-e

From: K3for@aol.com
Date: Fri, 19 Jan 2001 08:25:16 EST
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130247-2001.01.19-07.38.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The mic-e chip you can buy from APR Bob at wb4apr@amsat.org individually.

I have an assembled Mic-Encoder in housing that I don't use anymore, if you want, for $100, works great.
PayPal ok.

73's,
Skip/K3FOR
Annapolis, MD

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] Re: AX25 Protocol Questions

From: Robert Donnell <kd7nm@ricochet.net>
Date: Fri, 19 Jan 2001 05:40:59 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130282-2001.01.19-13.16.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Thomas,

I'm not sitting with the protocol right now. and I'm not a PIC expert, but
I think I can shed light on your question 3. HDLC is used to "frame" the
AX.25 protocol. HDLC uses the bit stuffing as a technique to insure that
"data", comprising the addressing and payload of the packet, can never
contain the control/synchronization bit patterns HDLC uses to establish
frame boundaries and flag special conditions. So bit stuffing is only used
once the address/control/data frame has started, to insure that if the
payload data stream contains a large number of sequential "1" bits (sending
several 0xFF characters, for example) that an HDLC decoder (hardware or
software) doesn't prematurely terminate the packet frame. As a result HDLC
and AX.25 are able to provide 8-bit clean (binary) data payloads. APRS
just doesn't make use of 8-bit data.

What may additionally aid your understanding (and would refresh mine) would
be to research the HDLC framing protocol. In looking at your other
questions, I may be seeing enough coherence to indicate that the initial
synchronization routine may be looking for at least two sequential flag bit
patterns to start the frame, to help reject random flag detection on
noise. Most TNCs generate flag patterns during the entire TX Delay period
of the transmission, so unless the transmitting station's TX Delay setting
is very finely tuned, there are several received flag bit patterns in
sequence to work with. The HDLC decoder then actually needs to detect the
transition from flags to data to change the decoder state from "syncing" to
"synched" at the beginning of the packet frame.

I hope that helps!

73, Bob
--
Bob Donnell, KD7NM Ph:206-542-7661 kd7nm@pugetsound.net
Western Washington Amateur Radio IP Address Coordinator
-------------------- http://wetnet.wa.com/~kd7nm ----------------------
-- For recent vehicle location try: http://map.findu.com/kd7nm-9 ------
-- For recent handytalky location try: http://map.findu.com/kd7nm-7 ---

---
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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] AX.25 Protocol Frame Detection

From: "Thomas M. Alldread" <tma@mail.island.net>
Date: Sat, 20 Jan 2001 09:55:12 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130471-2001.01.20-12.08.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Greetings Bob:

Thanks for your response!

> noise. Most TNCs generate flag patterns during the entire TX Delay period
> of the transmission, so unless the transmitting station's TX Delay setting
> is very finely tuned, there are several received flag bit patterns in
> sequence to work with. The HDLC decoder then actually needs to detect the
> transition from flags to data to change the decoder state from "syncing" to
> "synched" at the beginning of the packet frame.
>

I did not notice anything in the AX.25 specification that stipulates the signal to be transmitted during the TXDelay period (maybe I missed it?). The understanding that a string of multiple 0x7E characters is the normal convention for the TXD period has shed a new light on my puzzle. It would now seem that the detection of a new frame start would require the detection of a 0x7E followed by a non 0x7E character with less than 6 consecutive 1s. Thanks Bob - I will go back and take another look at the code to see if this new information lifts some of the fog, (:/)!

I am still puzzled as for the reason the code I am studying seems to look for a logic 1 after the START flag as I believe the first bit of the address field is usually a logic 0. Subsequently the code seems to look for 6 additional consecutive 1s (which I believe should be disallowed by the 5 ones-in-a-row maximum bit stuffing limit) before declaring a valid frame start. I presume there must be a good reason for it and it is probably something else I have missed here on the steep side of the learning curve, (:/). I continue to wonder if it has something to do with a special APRS protocol that may as you suggest utilize a more complex double sync flag.

> and AX.25 are able to provide 8-bit clean (binary) data payloads. APRS
> just doesn't make use of 8-bit data.

Until now I had the impression APRS just utilizes the normal 8-bit bytes for a different application. If you have the time you might clarify this information for me. Although I don't think it would affect my application I am curious.

Many thanks for your interest and help Bob!

73 & Enjoy!
Tom, VA7TA

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] Re: AX25 Protocol Questions

From: Robert Donnell <kd7nm@ricochet.net>
Date: Sat, 20 Jan 2001 22:31:44 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130537-2001.01.21-00.45.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 09:55 AM 1/20/2001 -0800, Thomas M. Alldread wrote:
>Greetings Bob:
>
>   Thanks for your response!

Glad to help, and now I've had a chance to refresh myself a little on the
HDLC protocol. In fact, here's a link that looks like it explains it
pretty simply.

Here's basic frame construction:

http://www.erg.abdn.ac.uk/users/gorry/eg3561/dl-pages/hdlc.html

and info about bit stuffing, flags, and aborts:

http://www.erg.abdn.ac.uk/users/gorry/eg3561/dl-pages/hdlc-framing.html

Last time I looked at HDLC framing was about 15 years ago, shortly after I
got started with packet, and a friend and I were trying to rewrite
"dual-port digipeater" code to run in a TNC2, modified to have modems tied
up to both serial controller ports. NETROM offered a more powerful
solution to our problem and arrived before we finished our project.

>   I did not notice anything in the AX.25 specification that stipulates
>the signal to be transmitted during the TXDelay period (maybe I missed
>it?).

It's not specified, however as virtually all early TNCs used hardware to
generate HDLC framing, and the default output from those chips when no data
is being sent to the chip by the microcontroller is to send flags. At one
point writers of TNC2 code thought sending a continuous stream of 1's would
allow the receiving station to achieve faster clock recovery, and created
code to do this. As I recall, some of the users of TNCs using software to
decode HDLC all of a sudden found they were unable to decode packets
generated by the new TNC2 firmware. I don't believe those using
hardware-based HDLC decoders had the same problem. This is one of the
reasons I suggested looking into the idea that the decoder you are studying
might be looking for more than one sequential flag while in hunt mode. As
far as I know, all the amateur controllers now generate repeating flag
sequences during the TX Delay interval.

>   I am still puzzled as for the reason the code I am studying seems to
>look for a logic 1 after the START flag as I believe the first bit of
>the address field is usually a logic 0. Subsequently the code seems to
>look for 6 additional consecutive 1s (which I believe should be
>disallowed by the 5 ones-in-a-row maximum bit stuffing limit) before
>declaring a valid frame start. I presume there must be a good reason for
>it and it is probably something else I have missed here on the steep
>side of the learning curve, (:/).

I'm guessing that this second bit of code is again looking for a flag -
perhaps you are "reversing" the logic of the result of this routine? Or
that what it is designed to do is detect the trailing flag? What I see
(but have NOT programmed!) as a logical sequence for handling frames is
something like:

1) get a bit and shift it into the end of the register containing the
previous 7 bits.
2) see if register matches 0x7e (flag) pattern - if no, go to 1
3) shift in bits into two registers - one with raw bits, to look for flags,
aborts, and stuffed zeros, and the other that creates unstuffed bytes -
where the new bit is not shifted in if preceding 5 bits were one, and this
bit is a zero. When the "unstuffed byte register" has received 8 bits,
copy it to the tail of the frame buffer. Or more efficient would be to use
the current last byte of the frame buffer for that register. Update CRC
calculations as each byte is delivered. Should be calculated from
beginning of frame up to "current character - 2", since the last two bytes
contain the CRC as calculated by the sender.
4) if the raw register contains a flag, compare CRC transmitted with CRC
calculated,   If good, pass pointers for frame to routine that processes
valid frames. initialize new (or alternate) frame buffer. Go to 3.
5) if bad CRC or if raw register contains 'abort', toss frame
(re-initialize frame pointers), Go to 2.

>I continue to wonder if it has
>something to do with a special APRS protocol that may as you suggest
>utilize a more complex double sync flag.

APRS is not a modification of AX.25. All that the APRS "protocol" does is
defines several possible message formats and content types within the data
portion of an AX.25 Un-numbered Information frame, except that a MIC-E
position report also defines some bits in the destination callsign field of
the packet. Otherwise standard TNCs would probably not be usable with APRS.

 > > and AX.25 are able to provide 8-bit clean (binary) data payloads. APRS
 > > just doesn't make use of 8-bit data.
 >
 >   Until now I had the impression APRS just utilizes the normal 8-bit
 >bytes for a different application. If you have the time you might
 >clarify this information for me. Although I don't think it would affect
 >my application I am curious.

What I mean by this is that the high-order bit that's available in 8-bit
data isn't used by APRS. With the exception of MIC-E compressed position
reports, all APRS data formats defined use the printable ASCII character
set (including the space character) MIC-E position packets can include
some control characters (values less than 0x20h, and maybe the delete
character, 0x7fh). There is also another "compressed" position report
format. I don't know the specifics of it yet. I've made a start reading
the APRS standards document, but have not gotten to that point yet.

Do those thoughts help?

73, Bob
--
Bob Donnell, KD7NM   Ph:206-542-7661   kd7nm@pugetsound.net
         Western Washington Amateur Radio IP Address Coordinator
---------------------- http://wetnet.wa.com/~kd7nm ------------------------
-- For recent vehicle location try: http://map.findu.com/kd7nm-9 ------
-- For recent handytalky location try: http://map.findu.com/kd7nm-7 ---

---
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7. [mic-e] Alinco DR-135

From: George Carr <trident@telebyte.com>
Date: Tue, 23 Jan 2001 11:50:17 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-130900-2001.01.23-14.04.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Is anyone using an Alinco 135 with the built in TNC as a tracker?

George, N7GME

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

8. [mic-e] Re: AX25 Protocol Questions

From: "Thomas M. Alldread" <tma@mail.island.net>
Date: Mon, 29 Jan 2001 08:53:43 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-131744-2001.01.29-11.07.42--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> From: Robert Donnell <kd7nm@ricochet.net>
> Date: Sat, 20 Jan 2001 22:31:44 -0800
> X-Message-Number: 1
>

Hi Bob:

        Thanks for your follow-up message with all the good info! The PIC code
I am studying works very similar to your description and does look for a
pair of adjacent header flags. It also generates a string of 0x7e header
bytes during the TXDelay period as you described.

        One additional factor that was confusing me was that I was simulating

with the modulation scheme specified for the modem chip which is based
on the 1200 baud land line mark/space standard as opposed to the tone
toggle for space technique used for AX.25.

        Thanks again for all your help! You obviously have a solid background
in AX.25 protocol!

73 & Enjoy!
Tom, VA7TA

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9. [mic-e] Re: AX25 Protocol Questions

From: John Hansen <john@hansen.net>
Date: Wed, 31 Jan 2001 09:47:19 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132117-2001.01.31-08.56.50--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

A lot of folks have been fooled by this two flags in a row thing. As it
turns out, this approach will work for packet that is sent by MJF and
PacComm TNC's, but not Kantronics.   Kantronics sends 0x00's during the
TXdelay and then sends only one flag before the address data starts. Also,
if you send 0x7E's during the TXdelay period, Kantronics will not recognize
the packet if you have it set to software DCD. It is looking for 0x00's in
that case. I did not know this when I wrote my articles on AX.25 a couple
of years ago, but found it out while trying to debug my PIC TNC. As a
result, if you want your stuff to be fully compatible with everything that
is out there, it can't assume that there will be more than one flag and it
should send 0x00's during the TXdelay period.

And you thought there were standards!

John W2FS

At 08:53 AM 1/29/01 -0800, you wrote:
> > From: Robert Donnell <kd7nm@ricochet.net>
> > Date: Sat, 20 Jan 2001 22:31:44 -0800
> > X-Message-Number: 1
> >
>
>Hi Bob:
>
>   Thanks for your follow-up message with all the good info! The PIC
> code
>I am studying works very similar to your description and does look for a
>pair of adjacent header flags. It also generates a string of 0x7e header
>bytes during the TXDelay period as you described.

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February 2001

Original source file: mic-e.0102
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0102

1. [mic-e] ADMIN: Monthly Announcement

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Thu, 1 Feb 2001 15:43:50 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132372-2001.02.01-15.58.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

POSTING MESSAGES

To post messages to the MIC-E SIG, send email to mic-e@tapr.org

MIC-E SIG RULES

The MIC-E SIG has a few simple rules:

. Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like "what kind of automobile should I buy to install my MIC-E?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.

. Be succinct when composing a message. (The MIC-E SIG software has been optioned to limit the length of each message.)

. When quoting a previous message, only quote the parts of that message you are referencing. (The MIC-E SIG software has been optioned to limit the length of a quote.)

. Do not send messages in HTML of Rich Text format.

. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] RE: mic-e digest: January 31, 2001

From: "Darryl Smith" <darryl@radio-active.net.au>
Date: Sat, 3 Feb 2001 01:48:27 +1100
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132465-2001.02.02-08.55.13--lyris.mic-e#tapr.org@lists.tapr.org>

Rendered body type: text/plain

G'Day

John W2FS wrote
> A lot of folks have been fooled by this two flags in a row thing. As it
> turns out, this approach will work for packet that is sent by MJF and
> PacComm TNC's, but not Kantronics.   Kantronics sends 0x00's during the
> TXdelay and then sends only one flag before the address data
> starts.

>From memory there are two ways for things to work between the TNC's. Before the NRZI converter there are two ways TNC's deal with things... My impression was that the two both send 0x7E, but the way that at least two of the TNC's vary is that one of them shares the ending bit of the flag. In other words, 0x7E is 01111110, so the two options are

    01111110 01111110 01111110 01111110
    0111111 0 111111 0 111111 0 111111 0

When you put these into an NRZI converter you then get either pulses or a square wave [I cannot remember which is which, and I am not at home at the moment]

Darryl

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] RE: mic-e digest: January 31, 2001

From: "MacDonald, Paul (OGO)" <P.MacDonald@compaq.com>
Date: Fri, 2 Feb 2001 09:51:24 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132467-2001.02.02-09.05.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am anxious to know if anyone has gotten the mic-e microphone pass-thru to work with a Yaesu FT-90R. The packet piece works great.

Thanks.

73, Paul K1ABC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] unsugscribe KE1EV@ARRL.net

From: "Richard Carter" <rich.carter@windriver.com>
Date: Fri, 2 Feb 2001 10:37:06 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132474-2001.02.02-09.47.23--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

unsugscribe KE1EV@ARRL.net

If this won't work, how the heck can I get off the list? I can't send email with a from field of KE1EV@ARRL.net

---
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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] RE: mic-e digest: January 31, 2001

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Fri, 2 Feb 2001 10:07:41 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132489-2001.02.02-10.23.29--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I tried very hard to make a Yaesu FT8000 pass thru the Mic-e... Ended up
buying a Kenwood. I contacted Yaesu and this list with no responses from
either.

Joe Dorn, W5VEX, Belton, Texas

-----Original Message-----
From: bounce-mic-e-9285@lists.tapr.org
[mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of MacDonald, Paul (OGO)
Sent: Friday, February 02, 2001 8:51 AM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] RE: mic-e digest: January 31, 2001

I am anxious to know if anyone has gotten the mic-e microphone pass-thru to
work with a Yaesu FT-90R. The packet piece works great.

Thanks.

73, Paul K1ABC

You are currently subscribed to mic-e as: joedorn@stonemedia.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] RE: unsugscribe KE1EV@ARRL.net

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Fri, 2 Feb 2001 10:10:11 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132494-2001.02.02-10.25.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Read the instructions at the bottom of this page...

Joe Dorn, W5VEX, Belton, Texas

-----Original Message-----
From: bounce-mic-e-9285@lists.tapr.org
[mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of Richard Carter
Sent: Friday, February 02, 2001 9:37 AM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] unsugscribe KE1EV@ARRL.net

unsugscribe KE1EV@ARRL.net

If this won't work, how the heck can I get off the list? I can't send email
with a from field of KE1EV@ARRL.net

You are currently subscribed to mic-e as: joedorn@stonemedia.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

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You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

7. [mic-e] IC 2100H vs. Mic-e

From: "Curtis V. Rocke" <crocke@mtco.com>
Date: Fri, 2 Feb 2001 11:15:57 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "'K9ORP, Larry Keeran'" <k9orp@arrl.net>,
        "'N9LOB, Duncan, Randy'"
 <rduncan@mtco.com>,
        "'K9 GRO, Jim Brook'" <mbrook@mtco.com>
Message-ID: <LYR2619-132517-2001.02.02-11.29.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Any successes with the Icom IC-2100H?

Questions/problems:
1. Cannot find PTT pull up/down. IC-2100H manual says RJ-45 connector
pin 4. With mic-e connected, removing pin 6 disables PTT. However, the
+7.5V on this pin does NOT change with PTT function enabled via HM-98S
mic!
What is hookup for PTT?

2. Jumpers on mic-e PCB are not well explained in its manual regarding
powering the mic-e via the radio mic jack (5V) vs. external power (13V).
 The IC-2100H mic lead supplies 8.5V.

Should the mic-e mic header include four silicon diodes to drop the
voltage from 8.5V to 5.5V into the mic-e?
What are the jumper settings for: JP1, JP6, JP13/14 with a supply of 8.5V?

3. There seems to be no RX audio on the mic jack like the IC-2100H manual
indicates. Right? TAPR info on the IC-2100H says RX audio is on pin 3.

Appreciate ANY help. Tnx and 73,
Curt/K9UQF

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

8. [mic-e] Re: unsugscribe KE1EV@ARRL.net

From: Robert G Unger <wb3dtg1@juno.com>
Date: Fri, 2 Feb 2001 13:12:23 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132539-2001.02.02-12.34.39--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, 2 Feb 2001 10:37:06 -0500 "Richard Carter"
<rich.carter@windriver.com> writes:
> unsugscribe KE1EV@ARRL.net
>
> If this won't work, how the heck can I get off the list? I can't
> send email
> with a from field of KE1EV@ARRL.net
>
HI Rich..... just look below. It ells you just what you must do. I put
arrows at the line. you were close, but not just exactly right. Arent we
all??? Good Luck> ---

> To unsubscribe send a blank email to
> leave-mic-e-2619I@lists.tapr.org<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

73, de Bob in Bethlehem, Pa.
Radio address WB3DTG@WB3DTG.#CEPA.PA.USA.NOAM

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

9. [mic-e] Re: unsugscribe KE1EV@ARRL.net

From: stephen galowski <sgalow@ihug.com.au>
Date: Sat, 03 Feb 2001 14:42:11 +1000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132612-2001.02.02-22.54.51--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

please read the bottom of the e-mail
you have sent the remove request to the wrong list ok
stephen

At 01:37 AM 3/02/2001 Saturday, you wrote:

>unsugscribe KE1EV@ARRL.net
>
>If this won't work, how the heck can I get off the list? I can't send email
>with a from field of KE1EV@ARRL.net
>
>
>---
>You are currently subscribed to mic-e as: sgalow@ihug.com.au
>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

>Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

10. [mic-e] RE: unsugscribe KE1EV@ARRL.net

From: "Steven R. Bible" <srbible@gate.net>
Date: Fri, 2 Feb 2001 22:29:37 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-132619-2001.02.02-23.43.39--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You can also goto the TAPR home page and click on TAPR LISTs link. From
there you can administer your list account from a web form.

- Steve, N7HPR

> -----Original Message-----
> From: bounce-mic-e-9285@lists.tapr.org
> [mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of Richard Carter
> Sent: Friday, February 02, 2001 9:37 AM
> To: TAPR MIC-E & PIC-E Special Interest Group
> Subject: [mic-e] unsugscribe KE1EV@ARRL.net
>
> unsugscribe KE1EV@ARRL.net
>
> If this won't work, how the heck can I get off the list? I can't
> send email with a from field of KE1EV@ARRL.net

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

11. [mic-e] IC-2100H vs. Mic-e

From: "Curtis V. Rocke/K9UQF" <crocke@mtco.com>
Date: Sun, 18 Feb 2001 21:29:29
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-135931-2001.02.18-21.44.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

My Feb. 2 message asked for help to set up the mic-e for an IC 2100H. I
have the answer ONLY after talking to ICOM Tech Support. The RJ-45
connector on the 2100H is NOT like other RJ-45s on ICOMs. Here is the
pinout from the radio:
1 - 8V DC output
2 - Freq up/down
3 - Digital mic data
4 - PTT (active low)
5 - GND (mic)
6 - Mic input
7 - GND (Chassis)
8 - Digital mic data

Here is what this all means for use with the mic-:

1. The mic-e will NOT WORK with the HM-98S connected thru the mic-e.
Reason is that the HM-98S, when connected, disables the PTT function INSIDE
the 2100H. You MUST use a mic that has a hardware-type switch that grounds
the PTT contact, no. 4. This also means you have now lost all remote
functions thru the HM-98S.
2. The HM-98 is fully digital mic including the PTT function. This is all
done via a digital communication from the mic to the 2100H.
3. There is no receiver audio available via the RJ-45 either. You must
use the external speaker jack with a separate 1/8" phone cable to the back
of the mic-e.
4. THE IC-2100H IS A GREAT RADIO BUT IS NOT CONVENIENT FOR MIC-E
OPERATION.

Curt/K9UQF

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

March 2001

Original source file: mic-e.0103
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0103

1. [mic-e] ADMIN: The Monthly Message

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Thu, 1 Mar 2001 11:49:39 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-138075-2001.03.01-12.05.20--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

POSTING MESSAGES

To post messages to the MIC-E SIG, send email to mic-e@tapr.org

MIC-E SIG RULES

The MIC-E SIG has a few simple rules:

. Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like "what kind of automobile should I buy to install my MIC-E?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.

. Be succinct when composing a message. (The MIC-E SIG software has been optioned to limit the length of each message.)

. When quoting a previous message, only quote the parts of that message you are referencing. (The MIC-E SIG software has been optioned to limit the length of a quote.)

. Do not send messages in HTML of Rich Text format.

. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] mic-e path probs

From: "David Boyle" <kr4cn@gte.net>
Date: Sat, 10 Mar 2001 13:38:19 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-139798-2001.03.10-12.50.03--lyris.mic-e#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Hi, I`v been using the mic-e in auto mode as a tracker for some time with no probs, but lately after repairing a loose con on the personality header using a HTX-202) I find that I cant get the config to "take" speficically the relay, wide,wide path is not seen in the transmitted date, just a bunch of numbers! The beacon text just disapears as well after the "perm" and reset------anyone have any thoughs on this? Also I would like to get a schematic of the board---I lost mine-- it is not included with the manual.....dave (kr4cn)

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] confirm

From: mansour mobaseri <mmobaseri@yahoo.com>
Date: Sat, 17 Mar 2001 15:20:55 -0800 (PST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1082-2001.03.17-17.36.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

_____
Do You Yahoo!?
Get email at your own domain with Yahoo! Mail.
http://personal.mail.yahoo.com/

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] FREE Biotech Stock Info! 683

From: <biotechstox73@juno.com>
Date: Tue, 20 Mar 2001 18:55:39
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-1755-2001.03.20-18.45.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/html

Do you want to capitalize on the Biotech Revolution

Do
you want to capitalize on the Biotech Revolution? Would you like to add groundbreaking biotech, pharmaceutical and medical device companies to your portfolio mix? Does hearing about exciting IPO and private placement offerings from life sciences companies interest you?

The
exclusive Ruddy-Carlisle Biotech Infoline service keeps you abreast of investment opportunities in the life sciences space. Just sign up for it once and get important information instantly delivered to study at your leisure. Our service is 100% FREE! Sign
up! <mailto:biotechsubscribe2@yahoo.com>

Ruddy-Carlisle
Biotech Infoline:

Instantly
delivers key life sciences investment information directly to you!

Learn
about biotech, pharmaceutical & medical device investment opportunities before others!

Includes
IPO & private placement information!

100%
FREE!

For
the entire last decade there were only three profitable biotech companies. At the end of this year, ten are projected. At the end of 2003, over forty are projected! The genomic promise is about to be delivered and investors know it. The Ruddy-Carlisle Biotech Infoline provides you with critical, decision-making, information that aids the chance of investment success in this lucrative space. Sign

up! <mailto:biotechsubscribe2@yahoo.com>

Please
Note- Your information will only be
shared with companies that are in the life sciences space and pass our
rigorous inspection. Only the best opportunities will come to you.
Ruddy-Carlisle respects your privacy. Sign
up! <mailto:biotechsubscribe2@yahoo.com>

List Removal Instructions- Simply click here: remove <mailto:remobiotech3@yahoo.com>
to be instantly and permanently removed from our list. Send the blank email to
the address specified. Please do not try to reply to this message.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] Info.

From: noblelumpkin@webtv.net (Ben Ramler)
Date: Sat, 31 Mar 2001 21:39:47 -0600 (CST)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4062-2001.03.31-21.56.18--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi all my name is Ben Ramler KØBLR I was wondering if I may pose a
couple of questions to the List?

1.) When The Mic-E is hooked in to the radio will the Mic-E send the
info. over 144.39?
2.) How will the Mic-e affect the normal operation of a radio?

Thanks & 73
Ben KØBLR
St.Joesph,MN
VP STCARC

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] RE: Info.

From: "Paul M" <paul@coldnfrosty.com>
Date: Sat, 31 Mar 2001 22:47:49 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4070-2001.03.31-22.04.11--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----Original Message-----
From: bounce-mic-e-11070@lists.tapr.org
[mailto:bounce-mic-e-11070@lists.tapr.org]On Behalf Of Ben Ramler
Sent: Saturday, March 31, 2001 10:40 PM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] Info.

Hi all my name is Ben Ramler KØBLR I was wondering if I may pose a
couple of questions to the List?

1.) When The Mic-E is hooked in to the radio will the Mic-E send the
info. over 144.39?
Sure, so long as the radio is tuned to that frequency.

2.) How will the Mic-e affect the normal operation of a radio?
It doesn't. There are no mods to the radio.

Thanks & 73
Ben KØBLR
St.Joesph,MN
VP STCARC

You are currently subscribed to mic-e as: paul@coldnfrosty.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

7. [mic-e] RE: Info.

From: "Herb Gerhardt, KB7UVC" <gerhardt@hctc.com>
Date: Sat, 31 Mar 2001 21:50:33 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4093-2001.04.01-00.06.44--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ben,

If you are using it on a voice repeater, it must be a repeater that has
Mic-E capabilities. Then this repeater will translate your Mic-E packet
burst and retransmit it on the APRS frequency in your area which in most
cases will be 144.39.

You can also run your Mic-E directly on 144.39 and set it up so that it will
transmit automatically at your predetermined time interval. In this way it
will act like a normal tracker, except that it is not capable of being set
up to respond to RELAY.

In my normal mode of operation using my Mic-E tracker, I have a special
memory channel set to monitor my normal home repeater and have a big offset
programmed on this channel so that when it transmits, it will transmit on
144.39. When I hear someone calling me on my home repeater, I press my CALL
Channel button, turn off the Mic-E unit and hold a normal voice repeater
conversation. When done, I go back to my special memory channel and turn
the Mic-E back on. This method works really well for me. The only drawback
is, that your Mic-E unit can not monitor for a blank spot on 144.39 before
it transmits. This will cause some of the tracker transmissions to die due
to collisions. This is a minor drawback that I can live with.

Of course, even with the Mic-E unit hooked up but turned off, you can still
use your radio as you normally do in voice mode.

Hope this answers your questions.

Herb, KB7UVC
NW APRS Group, West Sound Coordinator
Our WEB Site: www.nwaprs.org
My Home Page: http://members.nbci.com/kb7uvc/index.htm

> -----Original Message-----
> 1.) When The Mic-E is hooked in to the radio will the Mic-E send the
> info. over 144.39?
> 2.) How will the Mic-e affect the normal operation of a radio?
>
> Thanks & 73
> Ben KØBLR

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

April 2001

Original source file: mic-e.0104
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0104

1. [mic-e] RE: Info.

From: noblelumpkin@webtv.net (Ben Ramler)
Date: Sun, 1 Apr 2001 07:56:28 -0500 (CDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4139-2001.04.01-08.12.56--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks herb-
   I was wondering though how would it affect a dual band radio like a
ft-8100?

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] RE: Info.

From: Robert Donnell <kd7nm@ricochet.net>
Date: Sun, 01 Apr 2001 08:09:21 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4163-2001.04.01-10.25.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 07:56 AM 4/1/2001 -0500, you wrote:
>Thanks herb-
>   I was wondering though how would it affect a dual band radio like a
>ft-8100?

Again, it won't affect the radio, per se. The Mic-E just "pushes" the PTT
circuit and adds audio to the transmit circuit. If your radio is set to
transmit on a frequency other than 144.39, whoever (or what ever) is
listening to that frequency will hear the Mic-E data burst. The Mic-E
behaves just as if you had keyed the microphone yourself.

Hope that makes it more clear.

73, Bob

--
Bob Donnell, KD7NM   Ph:206-542-7661   kd7nm@pugetsound.net
        Western Washington Amateur Radio IP Address Coordinator
---------------------- http://wetnet.wa.com/~kd7nm ------------------------
-- For recent vehicle location try: http://map.findu.com/kd7nm-9 ------
-- For recent handytalky location try: http://map.findu.com/kd7nm-7 ---

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] RE: Info.

From: noblelumpkin@webtv.net (Ben Ramler)
Date: Sun, 1 Apr 2001 10:13:06 -0500 (CDT)
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4165-2001.04.01-10.29.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

oh! thanks

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] RE: Info.

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Sun, 1 Apr 2001 10:43:41 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4174-2001.04.01-11.01.07--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a MIC-e tied to a Kenwood TM-261, a single band two-meter package. By using the Kenwood mounting brackets designed to tie two Kenwood units together and some homemade spacers, I have made the MIC-e and the 261 a neat package that can quickly be moved from vehicle to vehicle. I use Velcro to hold it in place.

I tried to tie it to a Yaesu 8000, the predecessor to your 8100 and gave up after trying to contact Yaesu and the MIC-e SIG for assistance. Since then a couple of others have posed the same question and not gotten a response that is positive. I do not believe you can connect it externally to the Yaesu products. For what it is worth, I have changed my brand loyalty to Kenwood because of this and their on going support of APRS. I will order the D700 shortly. (I let the bugs settle out of new concept products.)

The MIC-e is an interface, not a transmitter, basically replacing the audio input with the APRS packets. What frequency it transmits on is dependent on the transmitter. You can plug the microphone into the front of the MIC-e and use it as a conventional radio, that is the microphone features are passed through to the radio.

One responder to this question suggested setting up the radio to listen to his favorite repeater. The MIC-e monitors the audio output from the radio and only transmits if it does not hear anything. If you set it up as suggested, you add to the clutter on the APRS frequency. This may not be a problem where you have just a few APRS stations as in my local area in Central Texas, but when you get to an area such as Dallas Fort Worth, it will create altogether too many 'collisions' and the many repeaters go wild.

If I were starting from scratch, I would not use the MIC-e but rather the Kenwood D700 or the 261 with a Kantronics TNC. The Kantronics units cost just a little more and offers a lot more versatility. It would probably work with your Yaesu rig also. (The D700 does not need an external TNC.)

One of the big selling points on the MIC-e was its ability to pass through repeaters that were equipped to handle this feature. I don't believe there are many repeaters so equipped but I could be very wrong on this.

With this said, I like my package very much and it has worked well over the past couple of years, I would just go a different route if I was starting today. The BIG disadvantage to the D700 is that it is a two-piece unit and you must transport both pieces from vehicle to vehicle if you change from the family car to the storm chase vehicle to the motor home, as I do. My MIC-e/ TM 261 is very transportable and with its cigarette lighter plug and a mag-mount antenna I can use it almost everywhere.

Joe Dorn, W5VEX, Belton, Texas

-----Original Message-----
From: bounce-mic-e-9285@lists.tapr.org
[mailto:bounce-mic-e-9285@lists.tapr.org]On Behalf Of Ben Ramler
Sent: Sunday, April 01, 2001 7:56 AM
To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] RE: Info.

Thanks herb-
   I was wondering though how would it affect a dual band radio like a ft-8100?

You are currently subscribed to mic-e as: joedorn@stonemedia.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] MFJ APRS digital radios

From: "Joe B. Dorn" <joedorn@stonemedia.com>
Date: Sun, 1 Apr 2001 11:27:55 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-4179-2001.04.01-11.45.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have one on my weather station and it has been working well for almost two
years, BUT I would use the 261 instead because it has more versatility and
power for very little more cost. It works well in my case because I am only
trying to hit APRS repeaters a few miles away to get on the network.

One of my buddies has two of them in a mobile application using the
Kantronics TNC's and he is not at all happy with the coverage. We have
pretty well decided that the 261/tnc arrangement (or equivalent radio) is
best as an all around package dedicated to APRS. If you decide to leave
APRS, you still have a radio good for other purposes...

Joe Dorn, D/21 D/C

-----Original Message-----
From: Ben Ramler [mailto:noblelumpkin@webtv.net]
Sent: Sunday, April 01, 2001 10:59 AM
To: joedorn@stonemedia.com
Subject: your email

what are your thoughts about those MFJ single channle radio that
specificly setup for 144.39?

Thanks,
Ben Ramler KØBLR

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] Dayton Hamfest: APRS at the TAPR Digital Forum

From: Steve Dimse <k4hg@tapr.org>
Date: Thu, 26 Apr 2001 10:26:28 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-9310-2001.04.26-09.44.05--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Once again I have been handed the utterly impossible task of covering all
of APRS in 45 minutes within the TAPR Digital Forum on Friday. Without
announcement I have already received four requests for time. In previous
years, I tried to do a "What's New" sort of presentation myself, but this
year I will let people speak for themselves...here are the ground rules:

1. Anyone that wants to talk should email me directly (k4hg@tapr.org)
with a request, giving presenter's name, callsign, and topic. The
deadline for requests will be 0000z on May 5th. NO EXCEPTIONS!

2. Given that the requests already total more than the allocated 45
minutes, time will be split evenly among all who request. If any
presentations run short, there will be a general Q&A period afterwards.
NO EXCEPTIONS!

3. Given the problems that usually occur when trying to connect laptops
to the projector at presentations, no computers will be allowed. If you
have something you want to show off, create a handout to be passed out
prior to the presentation. NO EXCEPTIONS!

4. I will be very strict about time, I will notify the speakers in
advance of the time per presentation. Time will start from when you are
announced, not when you get to the front and start talking, so get there
early and sit in front if you want to maximize your time. I suggest you
practice to get it all in within your allocated time. NO EXCEPTIONS!

5. No yielding of allocated time (I.e. don't bother getting 5 of your
buddies to request time so you can talk longer). NO EXCEPTIONS!

6. If you ask for time, and then can't make it, please let me know as
soon as possible so that I can adjust the schedule.

7. It would good to announce where you will be later in the day for
questions, since there will be little if any time for questions to be
fielded at the time.

Sorry for the rules, but this is hard enough to do in a 6 hour format at
the DCC, 45 minutes is really tough.

I'd like a volunteer or two to help distribute handouts so we can
minimize disruptions.

Steve K4HG

[Please forward this to any APRS-related lists I miss]

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

7. [mic-e] Fwd: Subject: Gasoline Prices

From: n1jmm <n1jmm@earthlink.net>
Date: Sat, 28 Apr 2001 11:22:58 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-9787-2001.04.28-10.55.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-------- Original Message --------
Subject: Subject: Gasoline Prices
Date: Fri, 27 Apr 2001 07:42:42 -0400
From: jeanne.c.sommers@us.pwcglobal.com
To: PeggyLPF@aol.com, jpgksg@aol.com

This approach I could live with........Jeanne

This makes more sense than the "don't buy gas on a certain day" routine
that was going around in April or May. Whoever started this idea has a
good point.
 By now, you're probably thinking gasoline priced at about $1.49 is
cheap. Me too! As it is now a $1.58 for regular unleaded. Now that the
oil companies and the OPEC nations have conditioned us to think that the
cost of a gallon of gas is CHEAP at less than $1.50, we need to try an
aggressive response. With the price of gasoline going up more each day,
we consumers need to take action. The only way we are going to see the
price of gas come down is if we don't buy it. But, that's not really a
very practical option since we all have come to rely on our cars. But we
CAN have an impact on gas prices if we all act together. Here's the idea
- For the rest of this year, don't purchase gasoline >from the two major
oil companies (which now are one),EXXON and MOBIL. If they are not
selling, they will be inclined to reduce their prices and if they reduce
their prices the other companies will too. But to have an impact, we need
to reach literally millions of users. But it's doable!
 I am sending this note to 42 people. If each of you send it to at least
10 more ...and those 10 send it to at least 10 more .. and so on, by the
time the message reaches the sixth iteration we will have reached over
one million consumers.
Acting together we can make a difference. If this makes sense to you,
please pass this message on, or one you compose, to at east 10 more
E-mail addresses.
 PLEASE HOLD OUT UNTIL THEY LOWER THEIR PRICES TO $1.28 or less AND KEEP
THEM DOWN. THIS CAN REALLY WORK.

Katherine Doyle
WASHTENAW COUNTY ROAD COMMISSIONIS
Department 555 North Zeeb Ann Arbor, MI 48106 734.327.6679
If you're not outraged, you're not paying attention!
Rita Goslin

Blackwell's Book Services
Publisher Services Dept
Publisher maintenance

tel: 856-228-8900 X2367

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this in error, please contact the sender and delete the material from any
computer.

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

8. [mic-e] Re: Fwd: Subject: Gasoline Prices

From: "Patrick Vadnais" <n6yuj@hotmail.com>
Date: Mon, 30 Apr 2001 14:50:22
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-10031-2001.04.30-10.08.06--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/html

and this relates to ham radio or mic-e how??? looks like a spam-type chain letter...

>From: n1jmm

>Reply-To: "TAPR MIC-E & PIC-E Special Interest Group"

>To: "TAPR MIC-E & PIC-E Special Interest Group"

>Subject: [mic-e] Fwd: Subject: Gasoline Prices

>Date: Sat, 28 Apr 2001 11:22:58 -0400

>MIME-Version: 1.0

>Received: from [204.17.217.24] by hotmail.com (3.2) with ESMTP id
MHotMailBCB42EF8002440043163CC11D91808AD0; Sat Apr 28 08:38:35 2001

>From bounce-mic-e-12887@lists.tapr.org Sat Apr 28 08:38:49 2001

>Return-Path:

>Message-ID:

>X-Accept-Language: en,pdf

>List-Unsubscribe:

>List-Software: Lyris Server version 3.0

>List-Subscribe:

>List-Owner:

>X-List-Host: Tucson Amateur Packet Radio

>X-Message-Id: <3AEAE052.C8D155D5@earthlink.net>

>Sender: bounce-mic-e-12887@lists.tapr.org

>Precedence: bulk

>

>

>

>-------- Original Message --------

>Subject: Subject: Gasoline Prices

>Date: Fri, 27 Apr 2001 07:42:42 -0400

>From: jeanne.c.sommers@us.pwcglobal.com

>To: PeggyLPF@aol.com, jpgksg@aol.com

>

>This approach I could live with........Jeanne

>

>This makes more sense than the "don't buy gas on a certain day" routine

>that was going around in April or May. Whoever started this idea has a

>good point.

> By now, you're probably thinking gasoline priced at about $1.49 is

>cheap. Me too! As it is now a $1.58 for regular unleaded. Now that the

>oil companies and the OPEC nations have conditioned us to think that the

>cost of a gallon of gas is CHEAP at less than $1.50, we need to try an

>aggressive response. With the price of gasoline going up more each day,

>we consumers need to take action. The only way we are going to see the

>price of gas come down is if we don't buy it. But, that's not really a

>very practical option since we all have come to rely on our cars. But we

>CAN have an impact on gas prices if we all act together. Here's the idea

>- For the rest of this year, don't purchase gasoline >from the two major

>oil companies (which now are one),EXXON and MOBIL. If they are not

>selling, they will be inclined to reduce their prices and if they reduce

>their prices the other companies will too. But to have an impact, we need

>to reach literally millions of users. But it's doable!

> I am sending this note to 42 people. If each of you send it to at least

>10 more ...and those 10 send it to at least 10 more .. and so on, by the

>time the message reaches the sixth iteration we will have reached over

>one million consumers.

>Acting together we can make a difference. If this makes sense to you,

>please pass this message on, or one you compose, to at east 10 more

>E-mail addresses.

> PLEASE HOLD OUT UNTIL THEY LOWER THEIR PRICES TO $1.28 or less AND KEEP

>THEM DOWN. THIS CAN REALLY WORK.

>

>Katherine Doyle

>WASHTENAW COUNTY ROAD COMMISSIONIS

>Department 555 North Zeeb Ann Arbor, MI 48106 734.327.6679

>If you're not outraged, you're not paying attention!

>Rita Goslin

>

>Blackwell's Book Services

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>tel: 856-228-8900 X2367

>

>

>----------

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>taking of any action in reliance upon, this information by persons or

>entities other than the intended recipient is prohibited. If you received

>this in error, please contact the sender and delete the material from any

>computer.

>

>---

>You are currently subscribed to mic-e as: n6yuj@hotmail.com

>To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

>Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

>

Get your FREE download of MSN Explorer at http://explorer.msn.com <http://explorer.msn.com>

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

July 2001

Original source file: mic-e.0107
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0107

1. [mic-e] Read This

From: Stan Horzepa <stanzepa@mail2.nai.net>
Date: Wed, 25 Jul 2001 19:44:51 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-26236-2001.07.25-19.09.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

POSTING MESSAGES

To post messages to the MIC-E SIG, send email to mic-e@tapr.org

MIC-E SIG RULES

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. Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like ³what kind of automobile should I buy to install my MIC-E?²) may be considered off-topic. If you start a message with ³this is off-topic□² then you are violating this rule.

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. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

October 2001

Original source file: mic-e.0110
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0110

1. [mic-e] ADMIN: Monthly Message

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 08 Oct 2001 19:27:05 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-40915-2001.10.08-18.53.48--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

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QUESTIONS, COMMENTS, ETC.

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Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
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November 2001

Original source file: mic-e.0111
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0111

1. [mic-e] ADMIN: Monthly Reminder

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sat, 03 Nov 2001 09:39:54 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-44985-2001.11.03-09.07.06--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

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POSTING MESSAGES

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QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

December 2001

Original source file: mic-e.0112
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0112

1. [mic-e] Season's Greetings

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sat, 01 Dec 2001 09:27:43 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49502-2001.12.01-08.55.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

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POSTING MESSAGES

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QUESTIONS, COMMENTS, ETC.

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Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Mic-e won't communicate with my serial port

From: "dpo" <w6ty@arrl.net>
Date: Sat, 1 Dec 2001 23:16:17 -0800

To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49672-2001.12.02-01.44.13--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Help please. I've spent 2 days just trying to get the mic-e to see a com port. I went back into the mic-e files but besides seeing that I should put a stereo plug intp P1 I don't know what else to do. I don't have a scope but I did put my meter on pin 2 and 3 and was getting readings of 7.95V and 9.95V. When hitting <CR> I saw a quick drop on the lines. The unit powers up and all the LED's functioin according to their position. I have tried using 2 computers: a Soyo Dragon and a laptop Gateway 5150. My manual for the Soyo Dragon says: Serial Ports

The motherboard has two 9 pin D-Sub connectors located on the back panel.

The NS16C5450-compatible UARTs support data transfers at speeds of up to

115.2 Kbits/sec with BIOS support.

Could someone please help me.

Thanks in advance,
Doug w6ty

3. [mic-e] Re: Mic-e won't communicate with my serial port

From: Jack and Betty Patterson <w9jiu@qwest.net>
Date: Sun, 02 Dec 2001 07:39:16 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49698-2001.12.02-09.07.28--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Doug...Sounds like the send and recv pins may be reversed. You can use a db-9 plug from the Mic E to the computer. Pin 2 is output from Mic E and pin3 is in input. I use a stereo plug with no connections because I use a tripmate plugged into the DB-9. But if using the DB-9..be sure the stereo plug is out because it disconnects pin 3.

Hope that helps....cul 73, Jack....W9JIU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] Re: Mic-e won't communicate with my serial port

From: "dpo" <w6ty@arrl.net>
Date: Sun, 2 Dec 2001 14:53:20 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49781-2001.12.02-17.21.11--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Jack

Thanks for the quick response. If I were to look at the male pins on the serial port(on the computer)
would it be 1-5 right to left or 1-5 left to right. The reason I ask is to make sure I'm starting with the right
pins before I get to the mic-e.
Thanks again. I'm going crazy

73, doug   w6ty
----- Original Message -----
From: Jack and Betty Patterson <w9jiu@qwest.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Sunday, December 02, 2001 6:39 AM
Subject: [mic-e] Re: Mic-e won't communicate with my serial port

> Hi Doug...Sounds like the send and recv pins may be reversed. You can
> use a db-9 plug from the Mic E to the computer. Pin 2 is output from
> Mic E and pin3 is in input. I use a stereo plug with no connections
> because I use a tripmate plugged into the DB-9. But if using the
> DB-9..be sure the stereo plug is out because it disconnects pin 3.
>
> Hope that helps....cul 73, Jack....W9JIU
>
>
> ---
> You are currently subscribed to mic-e as: w6ty@arrl.net
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

> Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org
>

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] Re: Mic-e won't communicate with my serial port

From: Jack and Betty Patterson <w9jiu@qwest.net>
Date: Sun, 02 Dec 2001 16:17:19 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49789-2001.12.02-17.45.17--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Doug..If looking at the connector pins from the pluggable side the
pin number one is in the longest row and is on the left. Also get a
flashlight and they are sometime numbered from the front and always in
the back.

73, Jack

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] Re: Mic-e won't communicate with my serial port

From: "dpo" <w6ty@arrl.net>
Date: Sun, 2 Dec 2001 19:19:27 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49816-2001.12.02-21.47.22--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I do see the numbers and everything seems to line up. It still desn't talk.
Is there a jumper or
something that I';m missing. Also I tried hooking it up to a stereo plug
and I even reversed the
2 and 3 without success.

73, Doug   w6ty

----- Original Message -----
From: Jack and Betty Patterson <w9jiu@qwest.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
Sent: Sunday, December 02, 2001 3:17 PM
Subject: [mic-e] Re: Mic-e won't communicate with my serial port

> Hi Doug..If looking at the connector pins from the pluggable side the
> pin number one is in the longest row and is on the left. Also get a
> flashlight and they are sometime numbered from the front and always in
> the back.
>
> 73, Jack
>
>
> ---
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> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org
>

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

7. [mic-e] Re: Mic-e won't communicate with my serial port

From: "dpo" <w6ty@arrl.net>
Date: Sun, 2 Dec 2001 20:38:15 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-49828-2001.12.02-23.06.27--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Jack,

IT WORKS! Thanks for sticking with me Jack. When i changed over to the
stereo plug I added the ground along with Tx and Rx. just for fun I took
off the ground and it worked. Also, I changed over to my serial 1 port.
When going back to Serial 2 port it didn't work so my setup must be
different on the 2nd port. Anyway, thanks again for the help. It kept me
going just knowing I wasn't alone.
Now the fun of programming it.

Happy holidays to you and your family,
and all the Mic-e people out there.

73, Doug w6ty
----- Original Message -----
From: Jack and Betty Patterson <w9jiu@qwest.net>
To: TAPR MIC-E & PIC-E Special Interest Group <mic-e@lists.tapr.org>
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> the back.
>
> 73, Jack
>
>
> ---
> You are currently subscribed to mic-e as: w6ty@arrl.net
> To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org
>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

8. [mic-e] Mic-e not on APRS+SA map

From: "dpo" <w6ty@arrl.net>
Date: Sat, 8 Dec 2001 04:41:36 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-50884-2001.12.08-07.09.45--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone know why I don't see my mic-e on the APRS+SA map?
I checked back in the mic-e archives and one person had the same question
but it appears that the answer must have been sent direct.
If anyone knows what I can do to fix this I appreciate it

Happy Holidays,

Doug w6ty

9. [mic-e] [Fwd:]

From: Richard Allen <rallen@svn.net>
Date: Thu, 27 Dec 2001 14:13:49 -0800
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-53697-2001.12.27-16.49.34--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi - A friend just sent this to me regarding a nasty virus she
inadvertently
sent me. You may have received it too because you are in my address
book. It
was on my hard drive. Please read below!!!!

Lisa

I found this on my hard drive also. This has never happened to me: so,
check it out!

Richard
[Attachment: rallen.vcf; text/x-vcard; 223 bytes]

10. [mic-e] Re: [Fwd:]

From: David VanHorn <dvanhorn@cedar.net>
Date: Thu, 27 Dec 2001 17:28:47 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-53700-2001.12.27-16.55.16--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 02:13 PM 12/27/01 -0800, Richard Allen wrote:
>Hi - A friend just sent this to me regarding a nasty virus she
>inadvertently
>sent me. You may have received it too because you are in my address
>book. It
>was on my hard drive. Please read below!!!!

This is a HOAX.
The file mentioned is needed by windows.
Look up the virus info at CERT, or symantek before posting, PLEASE!

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

11. [mic-e] APRS on a voice channel?

From: "Fred McFall" <fredm@monarch.net>
Date: Mon, 31 Dec 2001 14:53:46 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-54383-2001.12.31-16.23.05--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The local Search and Rescue team is embarking on a major project with the APRS system. We have standardized on the Amateur Radio service as our communications and level of training.. and now are about to take the next step.

We have 12 Yaesu hand helds, and the money to put together the APRS system with

a Mic-e or Pic-e configuration, however, before we jump we need a bit of information that we cannot get (for certain) on the web.

We are hoping to use the PIC-e configuration, in order to facilitate the use of

voice and aprs on the same channel..... here is the catch..... does the PIC-e have the capability of stopping the data from going to the speaker of the mic/speaker. I have this strange hunch that if it does not, then our comms system just became useless.....

If the field ops have to listen to the data bursts from 11 other teams in the field, then chances are that they will turn down the volume to the point that the voice use becomes lost!

Can you set me straight on this or do we have to go with the dedicated portable

repeater with a dual port TNC to do the data stripping....

another alternative.... how about an audio sub carrier on the command centres transmit..... that means that the hand helds would only hear the command center..... ???? ideas?????

Fred McFall VE6FRM
Amateur Radio Emergency Sservices (ARES) - Emergency Coordinator for Medicine Hat Area
South Eastern Alberta Search and Rescue (Vice President)
SAR Alberta Director for Lethbridge Region
SAR Alberta Training Committee Chairman
.
Email ve6frm@rac.ca or fredm@monarch.net
.....

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

12. [mic-e] Re: APRS on a voice channel?

From: "Roy Bost" <rbost@itexas.net>
Date: Mon, 31 Dec 2001 17:00:56 -0600
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>

Message-ID: <LYR2619-54388-2001.12.31-17.31.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As I remember..the mic-e sends the data burst when the mic is un-keyed...so
you would only hear the burst at the end of each transmission. I also
remember that a circuit was developed to strip the data burst off of the
input to the repeater and send it out on another freq so it would not be
heard on the repeater. Hope this helps some! Happy Holidays!

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

January 2002

Original source file: mic-e.0201
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0201

1. [mic-e] ADMIN: Happy New Year!

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 01 Jan 2002 17:21:56 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-54544-2002.01.01-16.51.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

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POSTING MESSAGES

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. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

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UNSUBSCRIBING

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QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] NIMPHO ACADEMY (FREE) ZHUY

From: teenies24@msn.com
Date: Wed, 02 Jan 2002 03:51:32 -2000
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-54651-2002.01.02-06.25.57--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/html

<http://209.132.208.47/freexxxvippass/enter.html>

<http://209.132.208.47/freexxxvippass/enter.html>

<http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/3D"http://209.132.208.47/freexxxvippass/enter.html">
<http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/3D"http://209.132.208.47/freexxxvippass/enter.html">

Do
not reply to this e-mail message

To be taken
off this list please go to the link below and enter your e-mail address.

"Under Bill s.1618 TITLE III passed by the 105th US Congress this
letter

cannot be considered Spam as long as the sender includes contact

information and a method of removal."

WE HONOR ALL REMOVES. PLEASE SUBMIT ONE EMAIL AT A TIME OTHERWISE YOU
WILL NOT BE REMOVED. PROFANITY SERVES NO PURPOSE.

Please allow
for 24-72 hours to be removed from this list.

TO BE TAKE N OFF THIS LIST CLICK HERE <http://202.22.41.19:21/superpromoter/remove.asp>

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] RE: APRS on a voice channel?

From: "Bathgate, Ed" <Ed.Bathgate@marconi.com>
Date: Wed, 2 Jan 2002 09:03:48 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Cc: "'fredm@monarch.net'" <fredm@monarch.net>
Message-ID: <LYR2619-54664-2002.01.02-08.33.40--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Fred

Im an aprs user, and have worked 2 live S&Rs, and done several S&R trainings

with dog teams. With the amount of team to team talking that happens on a
drill,
let alone a live search, using a subtone to block all teams from hearing
each other is a bad idea. Using aprs is great, but do it on another freq.
It works well with Kenwood TH-D7 hand helds, which are dual band. You can
put your aprs data on a 440 freq. That will keep it secure and off the main
aprs net, and off the internet. It you need to do it with the existing gear
you
have, you should look at using Kantronics KPC3+ TNCs. The advantage they
have over
a Mic-E is that they are bi-directional. If you use a GPS, you can get
waypoints
on your display from your other teams. But still choose a different freq
for
your aprs transmissions.

My two cents.

Ed N3SDO

-----Original Message-----
From: Fred McFall [mailto:fredm@monarch.net]
Sent: Monday, December 31, 2001 4:54 PM

To: TAPR MIC-E & PIC-E Special Interest Group
Subject: [mic-e] APRS on a voice channel?

The local Search and Rescue team is embarking on a major project with the
APRS
system. We have standardized on the Amateur Radio service as our
communications and level of training.. and now are about to take the next
step.

We have 12 Yaesu hand helds, and the money to put together the APRS system
with

a Mic-e or Pic-e configuration, however, before we jump we need a bit of
information that we cannot get (for certain) on the web.

We are hoping to use the PIC-e configuration, in order to facilitate the use
of

voice and aprs on the same channel..... here is the catch...... does the
PIC-e
have the capability of stopping the data from going to the speaker of the
mic/speaker.   I have this strange hunch that if it does not, then our comms

system just became useless......

If the field ops have to listen to the data bursts from 11 other teams in
the
field, then chances are that they will turn down the volume to the point
that
the voice use becomes lost!

Can you set me straight on this or do we have to go with the dedicated
portable

repeater with a dual port TNC to do the data stripping....

another alternative.... how about an audio sub carrier on the command
centres
transmit..... that means that the hand helds would only hear the command
center...... ???? ideas?????

Fred McFall   VE6FRM
Amateur Radio Emergency Sservices (ARES) - Emergency Coordinator for
Medicine Hat Area
South Eastern Alberta Search and Rescue (Vice President)
SAR Alberta Director for Lethbridge Region
SAR Alberta Training Committee Chairman
.
Email ve6frm@rac.ca or fredm@monarch.net
.....

You are currently subscribed to mic-e as: ed@fore.com
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] Re: Spam

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Thu, 3 Jan 2002 17:30:33 +1100
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-54818-2002.01.03-01.05.25--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

G'Day All

        Is it possible to get a filter on the mailing list that filters
out a subject with a lot of spaces in the subject? If you have a look at

         NIMPHO ACADEMY (FREE)   ZHUY
You will notice that there are 20 spaces in the middle in a row... This
seems to be unique to SPAM. That would have most of the SPAM on the TAPR

mailing lists in the last few months and killed no messages by mistake

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

---
You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] ADMIN: Changes to this list

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Thu, 03 Jan 2002 20:17:19 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-54977-2002.01.03-19.47.03--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Earlier today, I changed two of the options of this list:

1. Only subscribers to this list are now allowed to contribute messages
to this list.

2. All new subscribers to this list must be approved by the
administrator of this list.

Item 1 means that you can only send messages to the list from the email
address that you subscribed with. If you are using a different email address
to send messages to this list, you will have to subscribe with that email
address, too. (If you do this, you can eliminate the duplicate receipt of
messages from the list by setting one of your subscriptions to receive no
mail from the list.)

Item 2 means more work for me, but that's why I get paid the big bucks for
administrating this list.

I made these changes to APRSSIG last year and they eliminated the spam and
other nonsense that the APRSSIG was experiencing. The changes should have
the same effect here.

By the way, some may ask why I don't set up some filters to eliminate the
problem, but that is not an option with the SIG software TAPR uses.

Thank you for your cooperation,

Stan, WA1LOU, Your List's Administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] Mic-e Repeaters

From: "Tatical308" <n3nri@innernet.net>
Date: Sat, 26 Jan 2002 12:47:49 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-59351-2002.01.26-12.15.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ok, new to the list. I am putting up a 2m repeater and was thinking about
making it a MIC-E repeater since I have my APRS digi right next to it. I am
sure that there is the info posted somewhere as to how to interface. Can
someone direct me to it??
Thanks in advance
Greg
N3NRI

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

February 2002

Original source file: mic-e.0202
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0202

1. [mic-e] ADMIN: Monthly Message with NEW stuff regarding subscription maintenance

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sun, 03 Feb 2002 16:15:15 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-60851-2002.02.03-16.57.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

The purpose of the MIC-E SIG is to provide a forum for folks interested in discussing the MIC-E (Mic Encoder), which installs between your radio microphone and radio to permit your GPS unit to transmit APRS AX.25 frames at designated intervals without a TNC.

POSTING MESSAGES

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MIC-E SIG RULES

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. Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like ³what kind of automobile should I buy to install my MIC-E?²) may be considered off-topic. If you start a message with ³this is off-topic□² then you are violating this rule.

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. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

SUBSCRIPTION MAINTENANCE

You may make changes to your subscription (like change your email address, toggle on/off the digest mode, etc.) by logging into the MIC-E SIG at http://www.tapr.org/cgi-bin/lyris.pl

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org

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Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

March 2002

Original source file: mic-e.0203
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0203

1. [mic-e] ADMIN: Monthly Message

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Fri, 01 Mar 2002 20:14:36 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-66089-2002.03.01-19.46.54--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

PURPOSE

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2. [mic-e] Greetings & a question

From: "Dean Rachwitz" <drachwitz@cox.net>
Date: Fri, 29 Mar 2002 11:05:15 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-71379-2002.03.29-12.37.37--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I just joined the list and thought I'd say hello and also pose a question.

My name is Dean Rachwitz, and my call is K7ADN. I enjoy the building and tinkering side of amateur radio as much as operating. I've wanted to get into APRS for several years, but just haven't gotten around to it.

The Mic-E seems ideally suited to what I'd like to do with APRS - that is, have a dedicated radio/GPS setup in my vehicle for reporting my position and requiring a minimum of hardware. Here's my question: The Mic-E kit is no longer produced, apparently, so is there a replacement, or do I look for a used unit?

Your help is very much appreciated.

73,

Dean K7ADN

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] Re: Greetings & a question

From: "Betty Patterson" <w9jiu@msn.com>
Date: Fri, 29 Mar 2002 15:02:04 -0700
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-71424-2002.03.29-16.35.14--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Dean..Look at byonics.com..he has the Tiny Track which is in a kit..small board and will do the same job as MicE.

73, Jack...W9JIU

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To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

April 2002

Original source file: mic-e.0204
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0204

1. [mic-e] ADMIN: Monthly Reading of the Riot Act

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 02 Apr 2002 20:49:22 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-71956-2002.04.02-20.23.52--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

(This message is posted on the MIC-E SIG on a monthly basis.)

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. Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the MIC-E (like ³what kind of automobile should I buy to install my MIC-E?²) may be considered off-topic. If you start a message with ³this is off-topic□² then you are violating this rule.

. Be succinct when composing a message. (The MIC-E SIG software has been optioned to limit the length of each message.)

. When quoting a previous message, only quote the parts of that message you are referencing. (The MIC-E SIG software has been optioned to limit the length of a quote.)

. Do not send messages in HTML of Rich Text format.

. Do not send attachments.

. Cross-posting is not permitted. (The MIC-E SIG software has been optioned to prevent cross-posting.)

. The MIC-E SIG administrator reserves the right to suspend or ban any list member who violates these rules.

SUBSCRIPTION MAINTENANCE

You may make changes to your subscription (like change your email address, toggle on/off the digest mode, etc.) by logging into the MIC-E SIG at http://www.tapr.org/cgi-bin/lyris.pl

UNSUBSCRIBING

To unsubscribe from the MIC-E SIG, follow the directions you will find at the bottom of each message you receive from the MIC-E.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the MIC-E, please email the MIC-E SIG administrator at the address below.

Stan Horzepa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org

To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Re: Greetings & a question

From: Robert G Unger <wb3dtg1@juno.com>
Date: Thu, 11 Apr 2002 17:19:42 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-73499-2002.04.11-17.05.59--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'll sell my 99% completed Mike-E for 75 bucks if anyone wants it

On Fri, 29 Mar 2002 15:02:04 -0700 "Betty Patterson" <w9jiu@msn.com>
writes:
> Hi Dean..Look at byonics.com..he has the Tiny Track which is in a
> kit..small
> board and will do the same job as MicE.
>
> 73, Jack...W9JIU
>
>
> ---
> You are currently subscribed to mic-e as: wb3dtg1@juno.com
> To unsubscribe send a blank email to
> leave-mic-e-2619I@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator:
> wa1lou@tapr.org
>
>

WB3DTG, Bob in Bethlehem, Pa.

_____
GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
http://dl.www.juno.com/get/web/.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] ADMIN: HTML no more

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sat, 13 Apr 2002 12:05:58 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-73927-2002.04.13-11.39.53--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks to a tip I received from Bill, WA7NWP, I was able to configure the
SIG software to automatically reject HTML messages. So, this SIG is now HTML
free!

Stan, WA1LOU, SIG administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

4. [mic-e] test - ignore this message

From: "Horzepa, Stan" <SHorzepa@c-cor.net>
Date: Fri, 19 Apr 2002 09:23:42 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-75192-2002.04.19-09.03.02--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

test - ignore this message

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

5. [mic-e] this is a test

From: "Horzepa, Stan" <SHorzepa@c-cor.net>
Date: Fri, 19 Apr 2002 09:32:12 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-75194-2002.04.19-09.11.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

ignore this test message

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

6. [mic-e] ADMIN: Reply and Reply To All

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sun, 21 Apr 2002 09:59:14 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-75568-2002.04.21-09.33.50--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

After experimenting with various combinations of SIG software settings, it
is evident that the SIG software cannot be set up to reply to the SIG
without losing the convenience of replying to the original author of a
message. Therefore, the SIG software is now set up to perform as follows:

REPLY sends your reply to the originator of the message

REPLY TO ALL sends your reply to the SIG and the originator of the message

Note that I provide no guarantees how these settings will interact with the
settings of your email software. However, I believe that this combination of
settings will work correctly with most email software.

I appreciate your patience during the past week as I experimented with the
SIG software. There is no way to experiment off-line, so you all were guinea
pigs during these experiments. I apologize for that.

I consider this matter closed and off-topic on the SIG. If you wish to
discuss this matter with me further, please do so directly and spare the
SIG.

Thanks for your cooperation,

Stan, WA1LOU, SIG administrator

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

August 2002

Original source file: mic-e.0208
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0208

1. [mic-e] 2002 issue of Packet Status Register (PSR)

```
From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 06 Aug 2002 19:57:19 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-93041-2002.08.06-19.41.12--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

The summer 2002 issue of Packet Status Register (PSR) is now available at www.tapr.org.

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

September 2002

Original source file: mic-e.0209
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0209

1. [mic-e] ICOM 2100H w/ MIC-e

From: "Curtis V. Rocke/K9UQF" <crocke@mtco.com>
Date: Fri, 27 Sep 2002 10:58:12
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-100742-2002.09.27-11.39.55--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The ICOM 2100H will not work with the Mic-e because when the 2100H mic is connected, it voids the mechanical PTT funtion of the radio which the Mic-e needs. The 2100H PTT function is digital and uses no mechanical switch to ground an input of the mic connector. I have converted to the AD-147+ however, it does not connect RX audio to mic connector contact pin 6 as described in the manual.

Curt Rocke
K9UQF

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] GPS Noise in Transceiver audio with Mic-e

From: "Curtis V. Rocke/K9UQF" <crocke@mtco.com>
Date: Fri, 27 Sep 2002 11:5:31
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-100744-2002.09.27-11.47.15--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have spent days trying to reduce the GPS noise transmitted on the audio of a Mic-e transceiver to an acceptable level. Has anyone been successful and/or have tricks to share? My Mic-e has in internal Garmin GSP-25 GPS engine that creates the noise. I am using Cat-5 cable between the Mic-e and radio. Do I need a combination of shielded cables? I have tried 8V radio mic power and external 13.8V. The noise will not clean up.

Thanks for ANY help.
Curt Rocke
K9UQF

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

October 2002

Original source file: mic-e.0210
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0210

1. [mic-e] Write

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Wed, 02 Oct 2002 18:41:05 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-101400-2002.10.02-18.23.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but
certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly
newsletter) is now soliciting articles, news items, etc. for the next issue
of the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is October 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Switch part number

From: W8JSA <w8jsa@exis.net>
Date: Tue, 15 Oct 2002 16:29:11 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-102911-2002.10.15-16.11.49--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

OM/YL,
I normally get to projects a lot sooner than this. A friend (KE4AZL) is
helping me put together my MIC-e project. Well, we can find the switch
that's called "Auto/Manual" and may also be called "S-1". I believe it's
the manual toggle switch on the front panel. If that's correct, can
someone give me a part number for the item. Thanks and take care.

PCB Name: APRS MicEncoder REV 2.1
DOC No. 082896-0101   REV 2.1
Date: 22 Apr 97

--
73 DE JEFF
CHESAPEAKE VA
36*45'42.34"N 076*15'01.29"W
UTM 18S 4069239N 0388394E
FM16us
[Attachment: smime.p7s; application/x-pkcs7-signature; 3,299 bytes]

3. [mic-e] Schematic for Mic-e V2.1

From: "Curtis V. Rocke/K9UQF" <crocke@mtco.com>
Date: Fri, 18 Oct 2002 7:53:6
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-103363-2002.10.18-08.35.47--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I would be very gratful to anyone that could tell me where to find a
schematic for the Mic-e V2.1 PCB.

Thanks and 73,
Curt/K9UQF

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

January 2003

Original source file: mic-e.0301
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0301

1. [mic-e] Get Published and Extend Your TAPR Membership!

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Fri, 03 Jan 2003 08:52:25 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-113438-2003.01.03-08.38.44--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR members:

The editorial board of Packet Status Register (PSR, the quarterly Newsletter
of TAPR) is now soliciting articles, news items, etc. for the next issue of
the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

As a bonus, if your contribution is published in PSR, your TAPR membership
will be extended by 3 months.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is January 26.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] PSR deadline coming soon!

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sun, 19 Jan 2003 19:54:53 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-116141-2003.01.19-19.42.10--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just a reminder: If you are interested in submitting an article for TAPR's
newsletter, Packet Status Register, the deadline is the 26th, so send me
your input ASAP.

73,

Stan, WA1LOU, PSR Editor

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

3. [mic-e] TAPR List Sponsorship

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Thu, 30 Jan 2003 21:38:19 +1100
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-118023-2003.01.30-05.25.35--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

People

Most of you would be aware that TAPR hosts this and other mailing lists.

You may not be aware of some of the other things that TAPR does, such as

        Sponsoring the development of 'Enabling Technologies' such as
                * High speed AD interfaces
                * New PIC-Encoder
        Sponsoring new projects
        Producing kits
        Running the annual Digital Communications Conference
        Providing the TAPR.ORG WWW site with software archive

Providing the PSR magazine free to members and non-members

All of these things cost money. One way you can support TAPR in what it is doing is to become a member of the organisation. Membership only costs
US$20 per year and provides support to all these activities. You can find
More information on www.tapr.org

If you cannot afford the annual membership, we would be happy for you to Contribute in other ways. If you cannot find a project to assist with Please contact me and I will find one for you.

Darryl Smith, VK2TDS
TAPR Board Member

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

March 2003

Original source file: mic-e.0303
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0303

1. [mic-e] Call for Powerpoint Files

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Mon, 24 Mar 2003 08:39:56 +1100
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-125580-2003.03.23-16.35.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

People

I am looking for powerpoint files to create an improved indexing of
PowerPoint files on TAPR.ORG. I have found some presentations, but I
know that there are a LOT more out there. I would like to get as many
powerpoint files on TAPR.ORG as possible and indexed.

If you have any powerpoint files that you would like to contribute to
the TAPR.ORG archive, please send me an email at VK2TDS@TAPR.ORG and I
will let you know where you can send the file. The files that I need are
anything to do with amateur radio digital communications. This would
include
        DCC Presentations (I have most of 2002 seperately)
        APRS and GPS
        Digital Voice
        Emergency Digital Operations
        Spread Spectrum and 802.11
                etc

The only powerpoints I know of are listed below...

        Thanks.... Darryl VK2TDS

ftp.tapr.org
./aprssig/dosstuff/APRSdos/pcsat-sum.ppt
./aprssig/dosstuff/APRSdos/science-jpg.ppt
./aprssig/dosstuff/APRSdos/science-serb.ppt
./aprssig/dosstuff/DOSmisc/RWFPPT.zip
./aprssig/presentations/96olympic.zip
./aprssig/presentations/APRSNE.ZIP
./aprssig/presentations/APRSPRES.exe
./aprssig/presentations/FireTrak.ZIP
./aprssig/presentations/HamfestHandout.doc
./aprssig/presentations/N4NEQPPT.ZIP
./aprssig/presentations/VK2TDS_Presentation.zip
./aprssig/presentations/aprs_intro.zip
./aprssig/presentations/aprsbrochure.zip
./aprssig/presentations/aprsdemo.ppt
./aprssig/presentations/aprstprs98.pdf
./aprssig/presentations/aprstprs98.zip
./aprssig/presentations/dcc2k_intro.ppt
./aprssig/presentations/dcc99.ppt
./aprssig/presentations/ham_com_2001.ppt
./aprssig/presentations/kd4rdb-aprs-messages.ppt
./aprssig/presentations/kd4rdb.pdf
./aprssig/presentations/kd4rdb.ppt
./aprssig/presentations/train.zip
./pub/tprs/hamcom97.ppt
./pub/tprs/hamcom98/aprs.hamcom98.ppt
./pub/tprs/hamcom98/wb5aoh.hamcom98.ppt
./pub/tprs/hamcom98/wd0etz.hamcom98.ppt
./ss/intro_ss.ppt

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

April 2003

Original source file: mic-e.0304
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0304

1. [mic-e] publish or perish

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 01 Apr 2003 19:38:06 -0500
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-127127-2003.04.01-19.28.26--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is your chance to become rich and famous! Well, maybe not rich, but
certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly
newsletter) is now soliciting articles, news items, etc. for the next issue
of the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is April 24.

Don't forget, if you are a TAPR member, you will add three months to your
TAPR membership for every article that is published in PSR.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Packet Status Register deadline nears

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 21 Apr 2003 19:38:40 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-129445-2003.04.21-19.34.19--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The deadline for the next issue of Packet Status Register (PSR), TAPR's
quarterly newsletter, is Thursday, April 24, so please get your submissions
to me as quick as a bunny!

73,

Stan, WA1LOU

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

May 2003

Original source file: mic-e.0305
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/mic-e/mail_archives/mic-e.0305

1. [mic-e] Spring 2003 issue of Packet Status Register (PSR) now available

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 05 May 2003 20:00:28 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-131513-2003.05.05-19.52.08--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The Spring 2003 issue of Packet Status Register (PSR), TAPR¹s quarterly
newsletter is now available at the TAPR web site (www.tapr.org).

This issue of PSR has the following contents:

802.11b Used in Ham's Shuttle Recovery Efforts by Doug Kilgore, KD5OUG

A New Tactical Reporting Protocol by Scott Miller, N1VG

Announcing N2YGK's Linux aprsdigi Version 2.4.3 3 by Alan
Crosswell, N2YGK

APRS IP Mobile in a Non-Dynamic Wireless Environment or 802.11 APRS by
Darryl Smith, VK2TDS

Portable Tactical Digital Communications Using Off-the-Shelf Consumer
Components by Ed Carp, N7EKG

President's Corner: Dayton, Directors and the DCC by John Ackermann, N8UR

Real Networking: Is It the Key to Keeping & Reviving Packet? by Ron Sauer,
K9RKI

Revitalizing "Plain" Packet by Jim Wagner, KA7EHK

TAPR and ARRL 22nd Annual Digital Communications Conference

TAPR Membership by Darryl Smith, VK2TDS

TAPR Order Form

WA8WDQ Replaces K0PFX on TAPR Board

Welcome to Jeannie, The House That Listens by Don Marquardt, K9SOA

You are currently subscribed to mic-e as: lyris.mic-e@tapr.org
To unsubscribe send a blank email to leave-mic-e-2619I@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

2. [mic-e] Spring 2003 issue of Packet Status Register (PSR) now available

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 05 May 2003 20:35:43 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-131541-2003.05.05-20.30.24--lyris.mic-e#tapr.org@lists.tapr.org>
Rendered body type: text/plain

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Announcing N2YGK's Linux aprsdigi Version 2.4.33 by Alan Crosswell, N2YGK

APRS IP Mobile in a Non-Dynamic Wireless Environment or 802.11 APRS by
Darryl Smith, VK2TDS

Portable Tactical Digital Communications Using Off-the-Shelf Consumer
Components by Ed Carp, N7EKG

President's Corner: Dayton, Directors and the DCC by John Ackermann, N8UR

Real Networking: Is It the Key to Keeping & Reviving Packet? by Ron Sauer,
K9RKI

Revitalizing "Plain" Packet by Jim Wagner, KA7EHK

TAPR and ARRL 22nd Annual Digital Communications Conference

TAPR Membership by Darryl Smith, VK2TDS

TAPR Order Form

WA8WDQ Replaces K0PFX on TAPR Board

Welcome to Jeannie, The House That Listens by Don Marquardt, K9SOA

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3. [mic-e] Call for Papers

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 20 May 2003 20:45:42 -0400
To: "TAPR MIC-E & PIC-E Special Interest Group" <mic-e@lists.tapr.org>
Message-ID: <LYR2619-133563-2003.05.20-20.41.06--lyris.mic-e#tapr.org@lists.tapr.org>
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Technical papers are solicited for presentation at the 22nd Annual ARRL and
TAPR Digital Communications Conference to be held September 19-21, 2003 in
Hartford, Connecticut, and publication in the Conference Proceedings. Annual
conference proceedings are published by the ARRL. Presentation at the
conference is not required for publication. Submission of papers are due by
August 5th, 2003 and should be submitted to:

Maty Weinberg, ARRL
225 Main Street
Newington, CT 06111

or via the Internet to
maty@arrl.org

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